

STUDIO
URBAN
ARCHITECTURE
—
EXPLORING
NIJMEGEN

2021-2022

design drawings

Imkeliene Boersma _ 5114721

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URBAN
ARCHITECTURE
—
EXPLORING
NIJMEGEN

2021-2022

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Imkeliene Boersma _ 5114721

tutors

Architecture _ Mechthild Stuhlmacher
Building Technology _ Mauro Parravicini
Research Plan _ Leeke Reinders

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INTRODUCTION



the start of exploring an open city context in a lock-down situation (photo I. Boersma)



interpretation of the theme: a mass of water, frozen at the edges. Showing urban context as adaptable, temporary, fragile and unique (photo I. Boersma)

The graduation studio of Urban Architecture started in February 2020 with a call to interpret the theme of this years' studio:

Encounters | Characters | Conversations | Adoptions

These sub themes are important qualifications of the ensemble of the inner city of Nijmegen. With the new projects we will add to the ensemble, replace elements, reinterpret situations, changes and contexts, shed different shadows and new light on certain places and configurations.

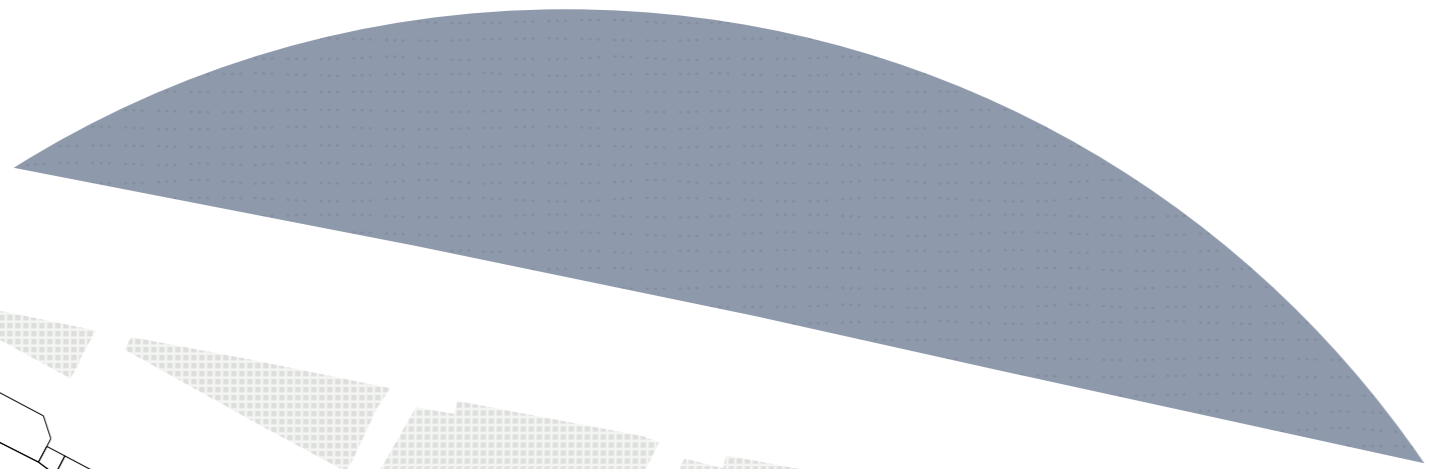
The specific content and context of the graduation design project lay open to explore. This not only opened the way to exploring an unknown city, Nijmegen, but also to a freedom of typology, location, context and setup. This research book will show the process of this exploration and the obstacles and treasures that were found.

From start to end of this entire graduation project, the new corona virus determined my explorations, with lock-downs and openings succeeding each other. Giving possibilities and non-possibilities a change to intertwine.

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DESIGNING SITUATION

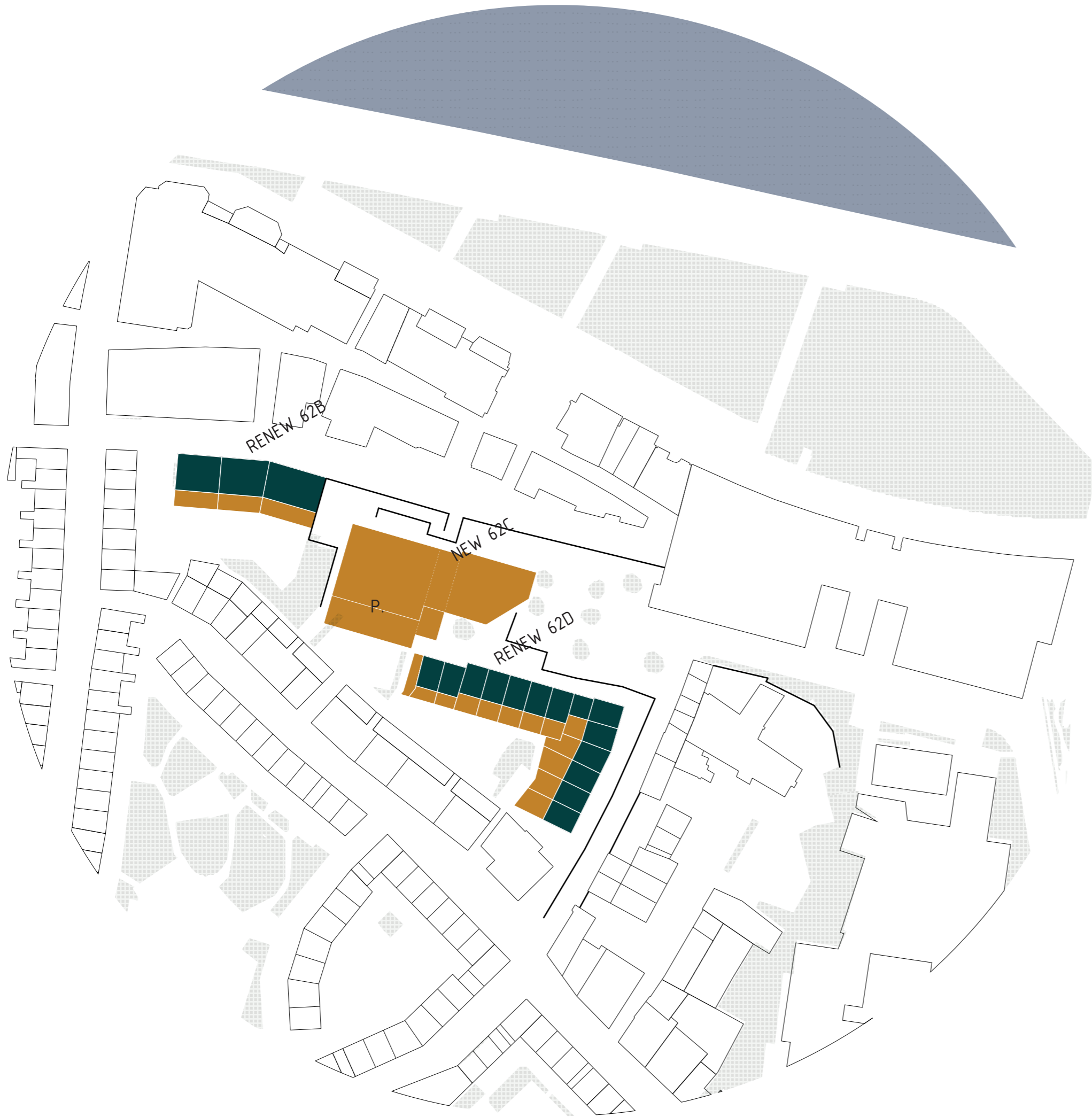


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan situation existing

SCALE
1 : 1 000





PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan situation new

SCALE
1 : 1 000





Imkeleene Boersma 511-721

PROJECT
Green Balcony Nijmegen

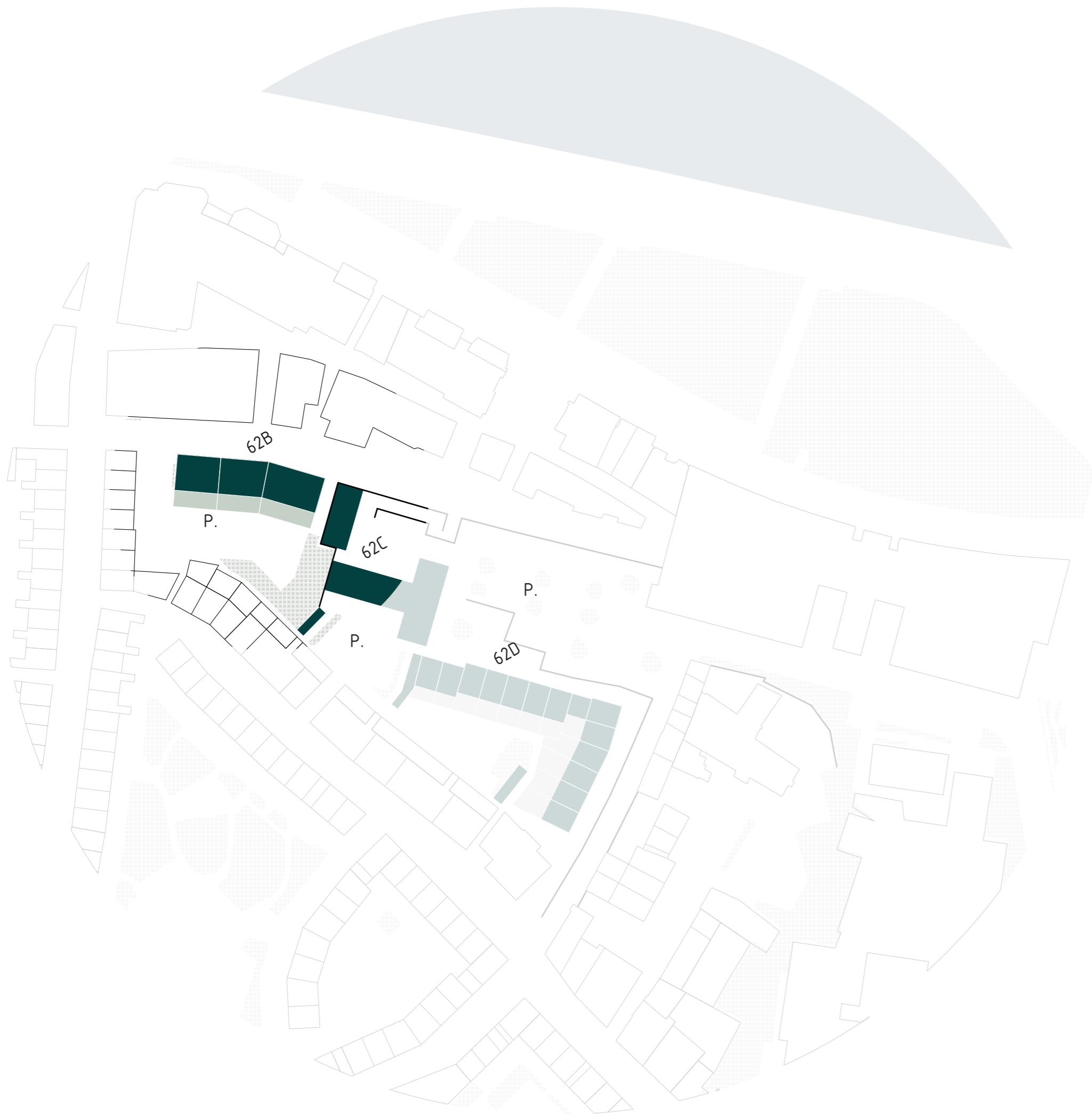
DRAWING
plan situation new

SCALE
1 : 400



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DESIGN RENEW 62B

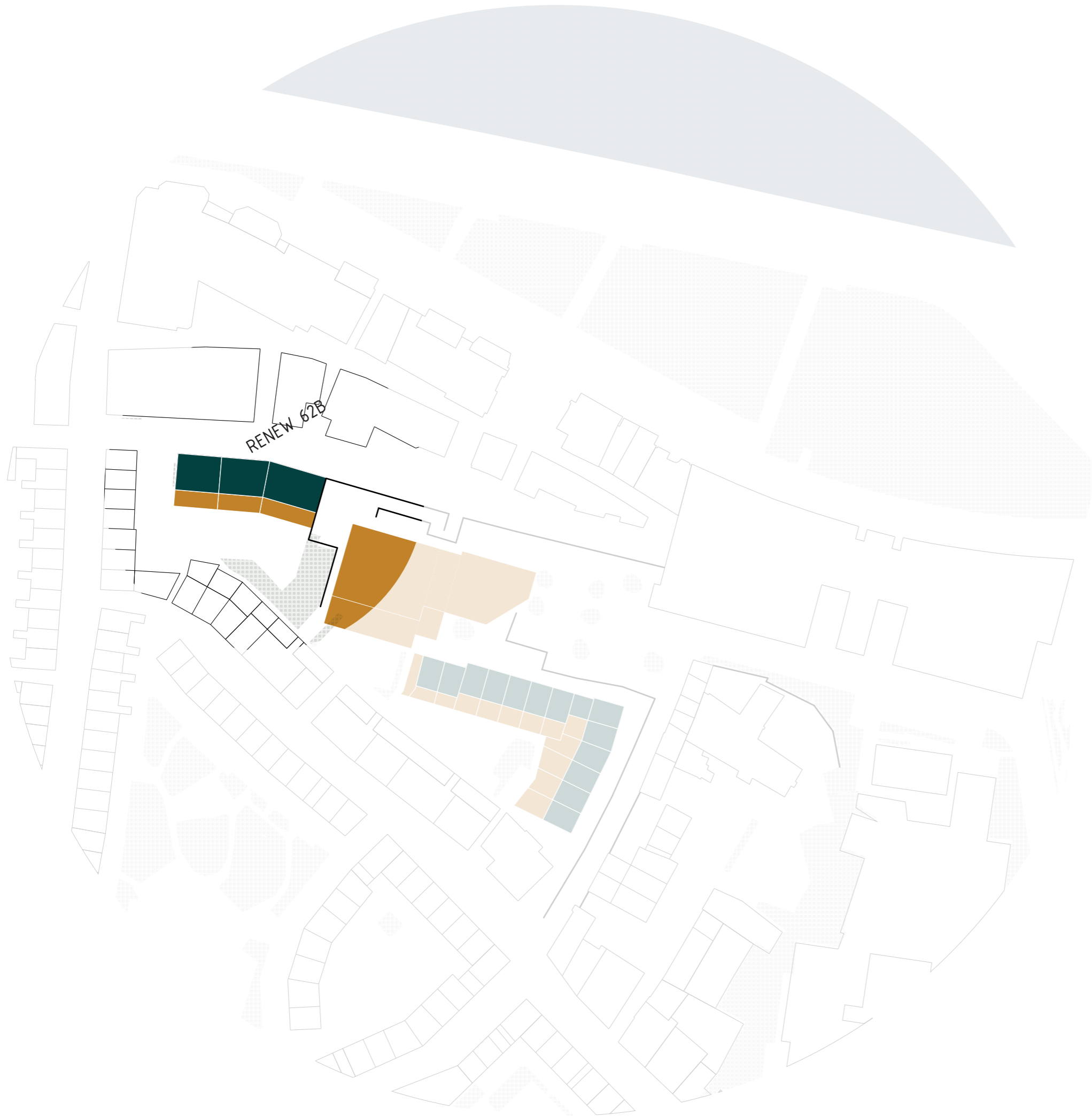


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan situation existing

SCALE
1 : 1 000



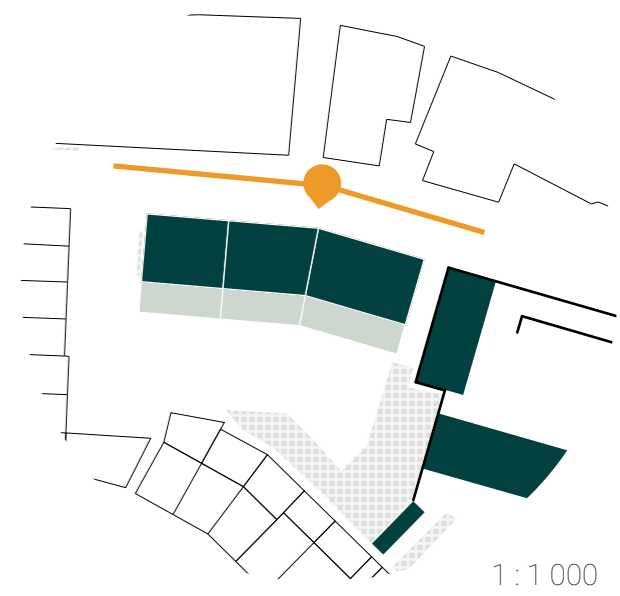


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan situation new

SCALE
1 : 1 000





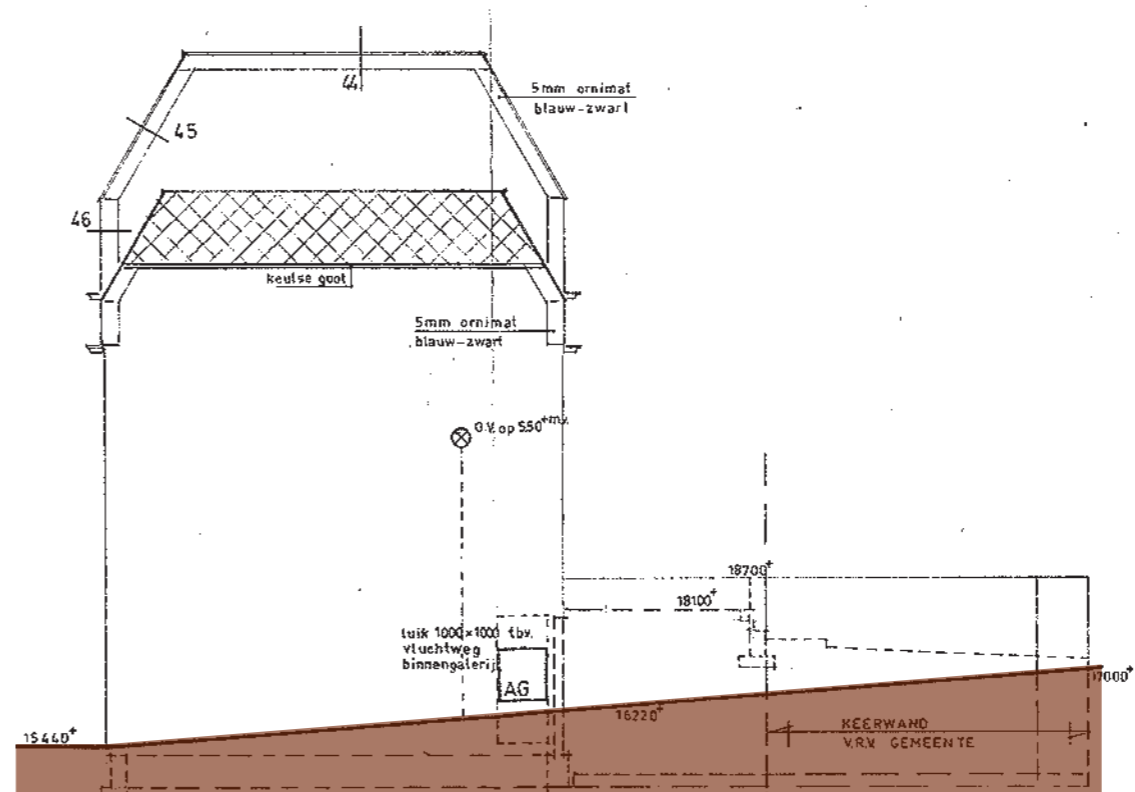
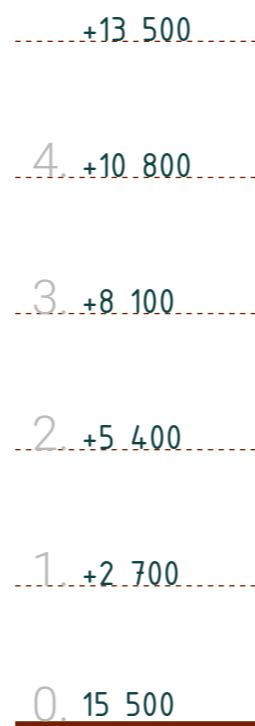
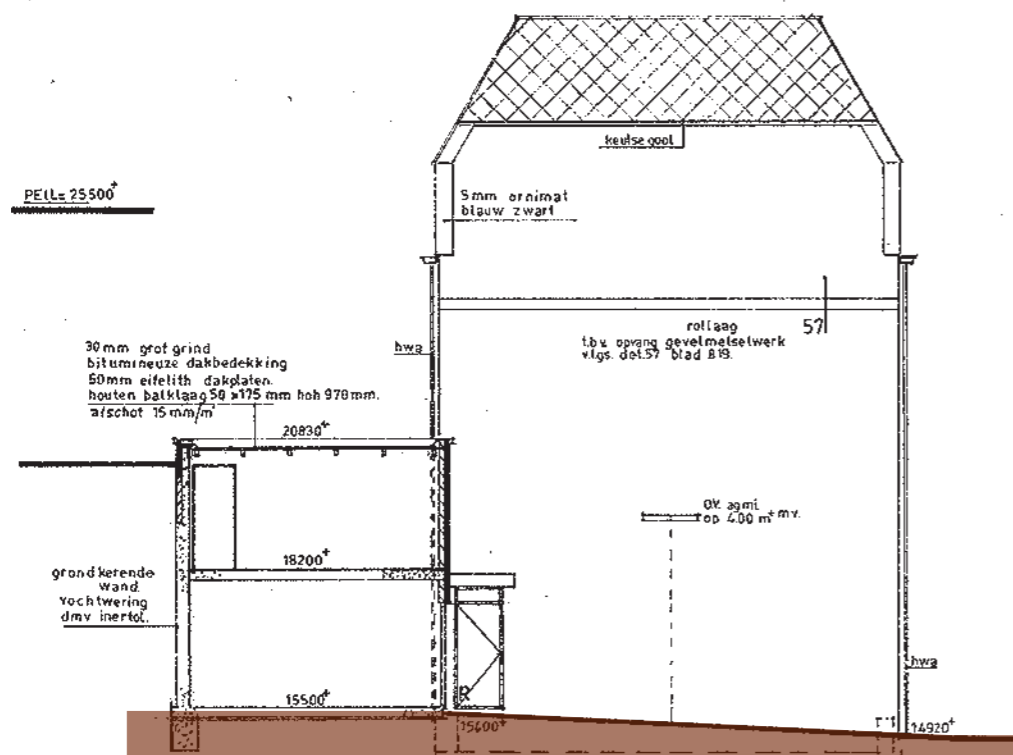
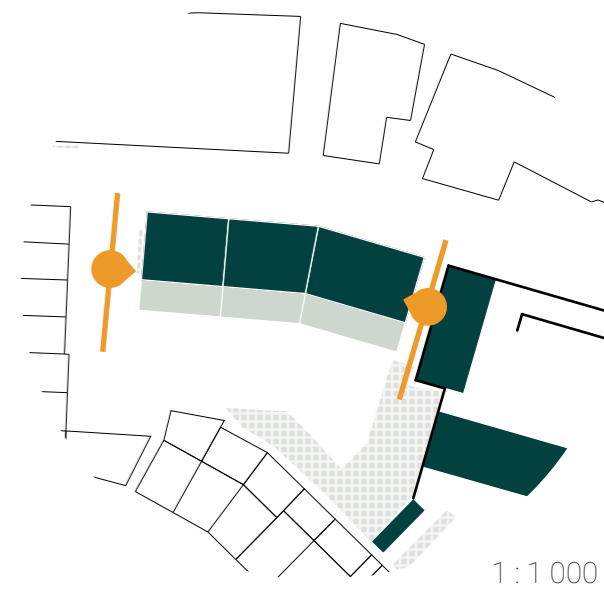
1:1 000



PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
facade north existing

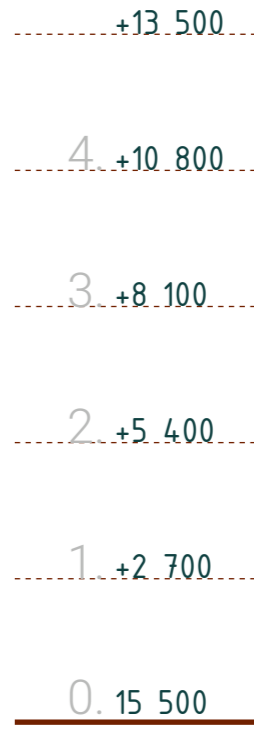
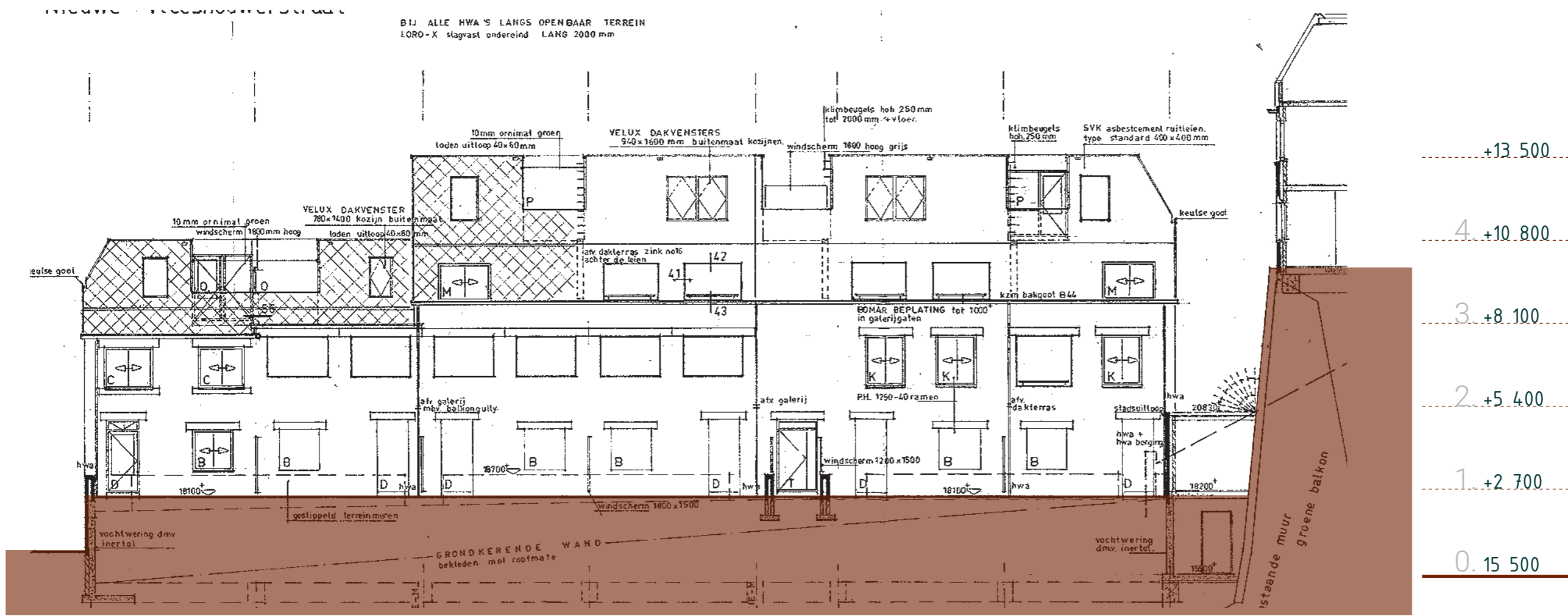
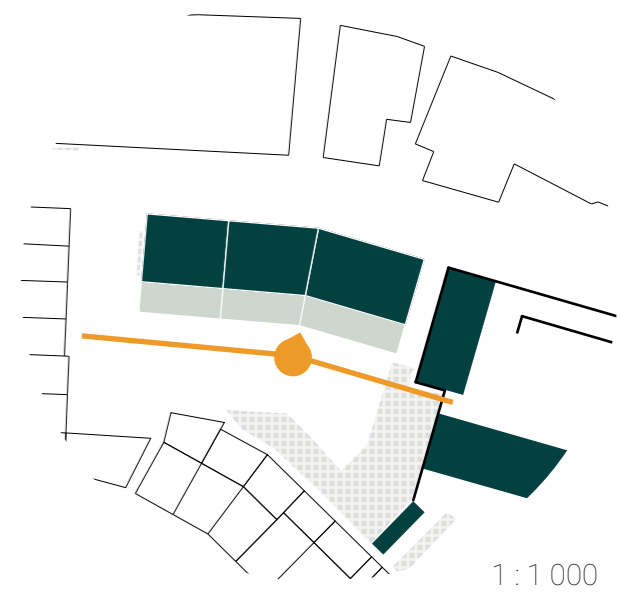
SCALE
1:150



PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
facade east existing
facade west existing

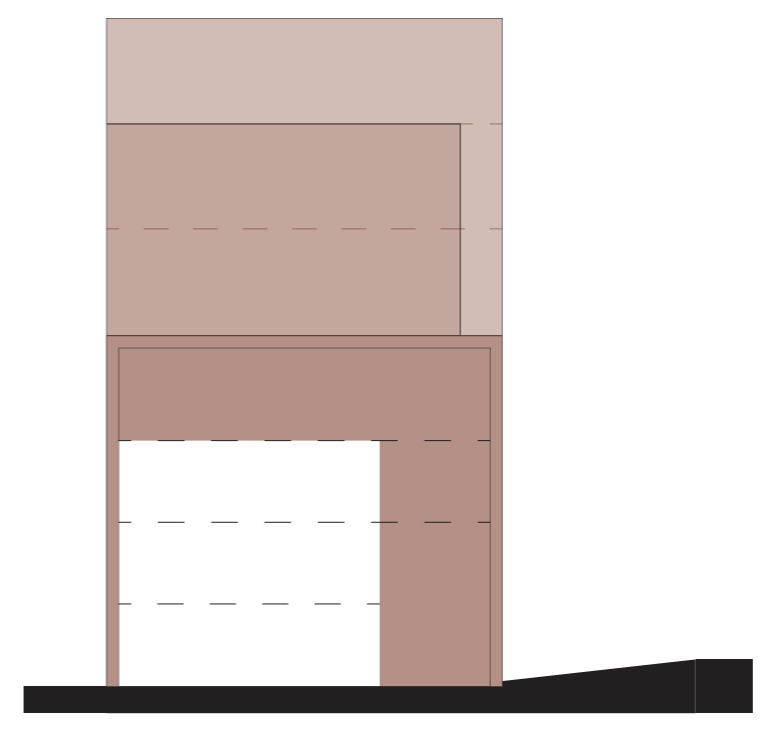
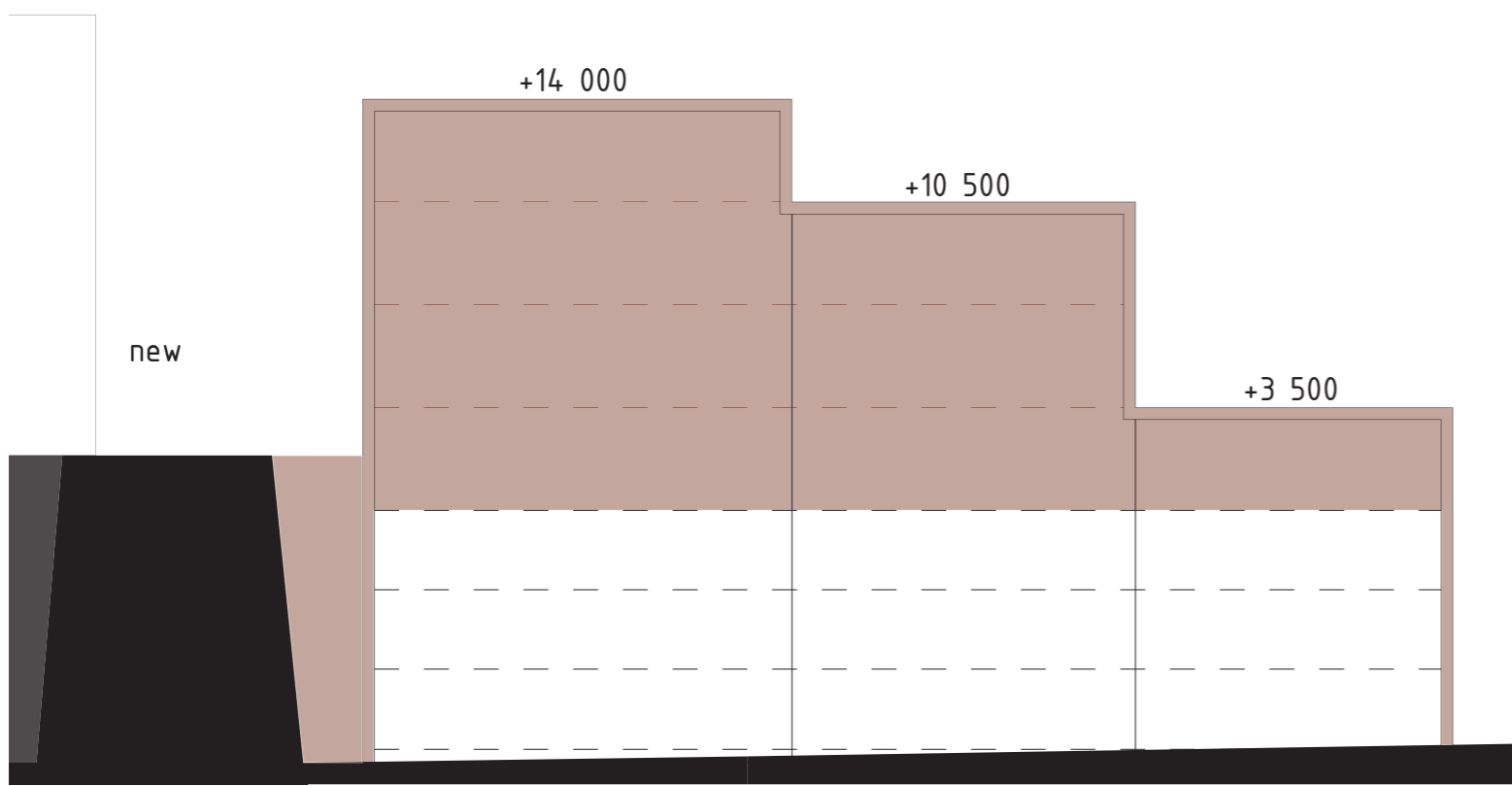
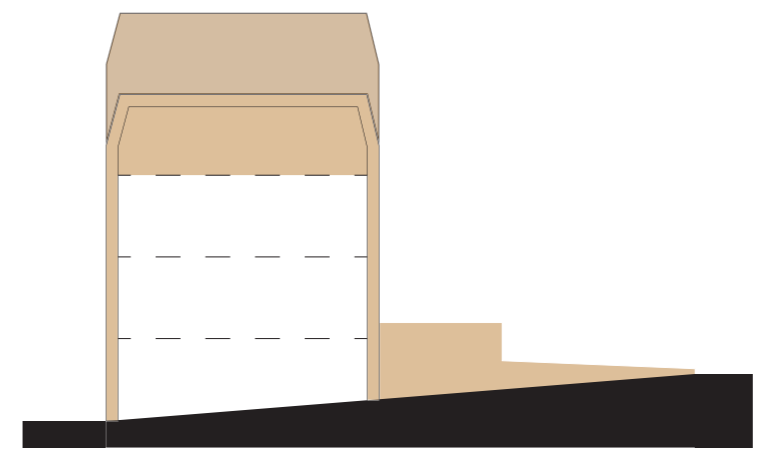
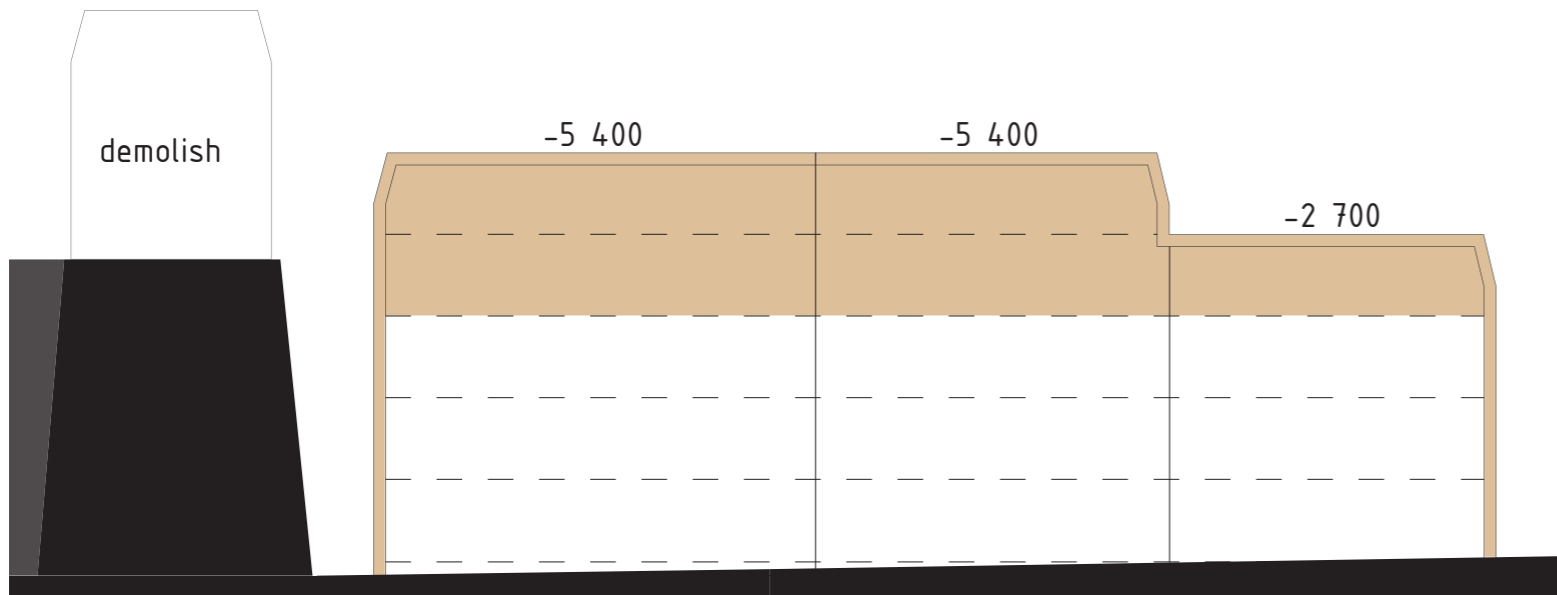
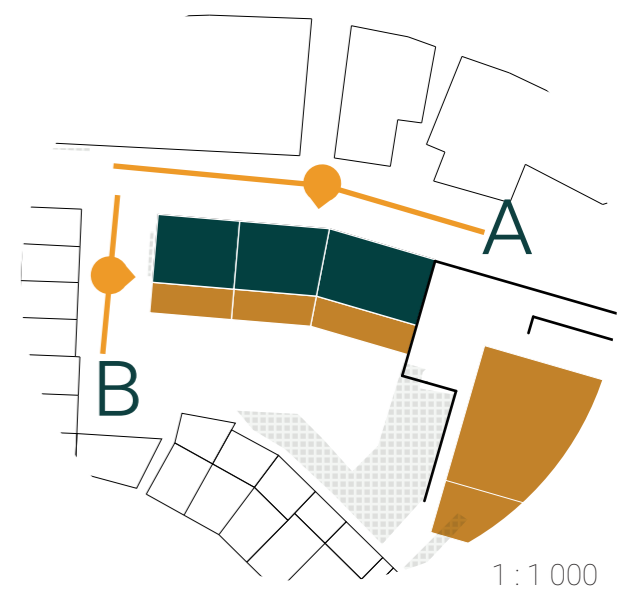
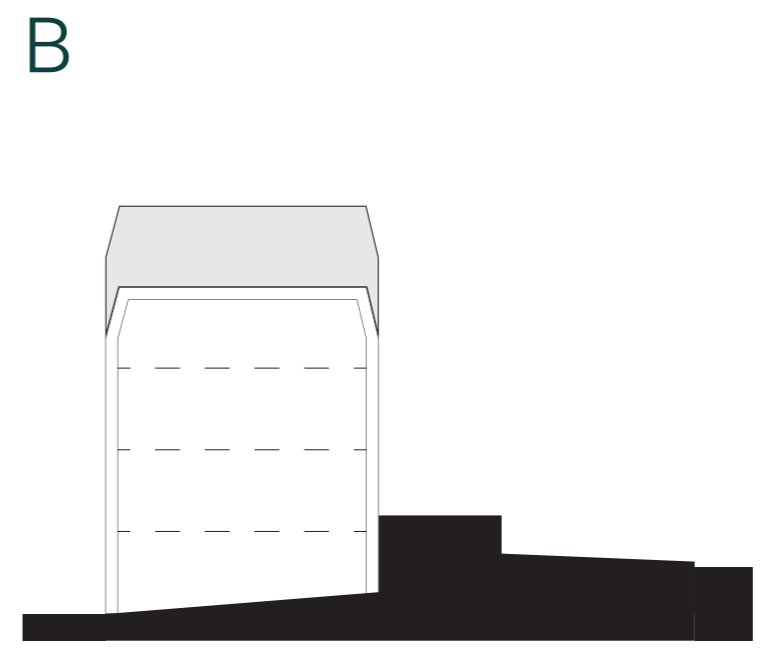
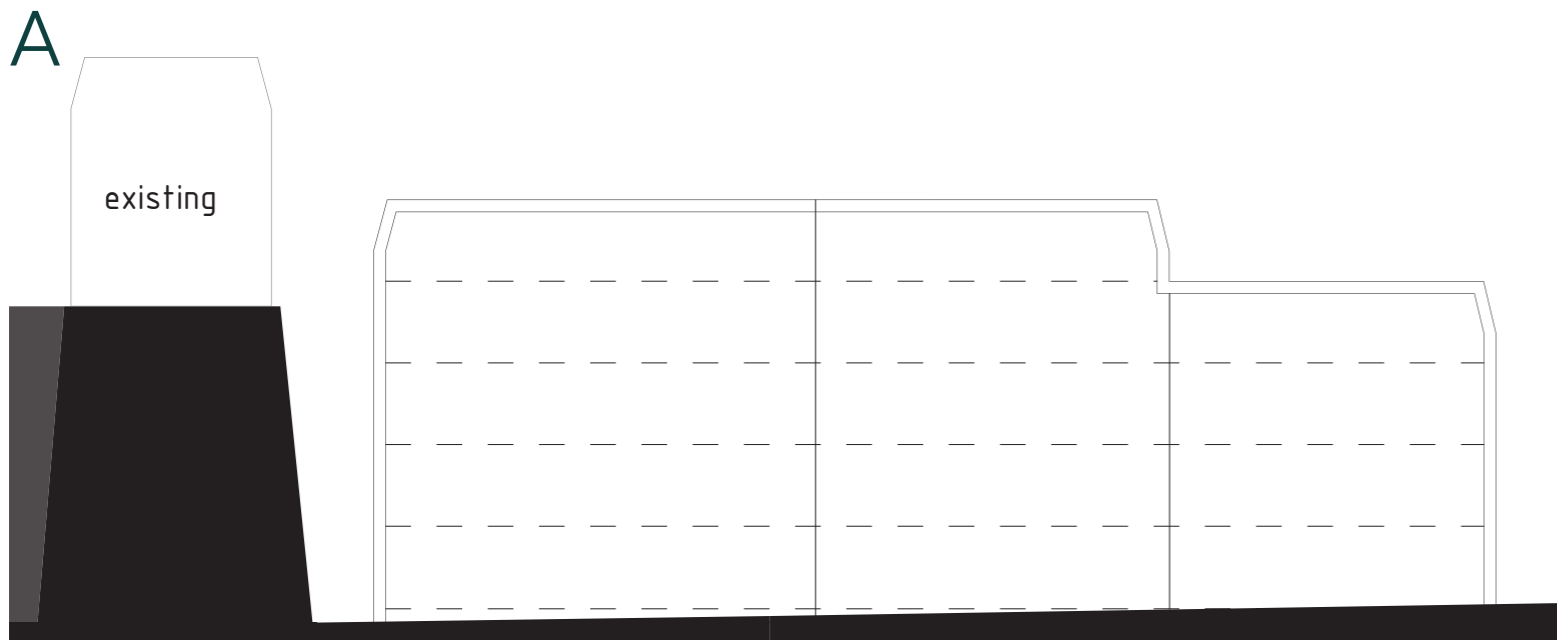
SCALE
1:150



PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
facade south existing

SCALE
1:150



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PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
volume concept
existing / new

SCALE
1 : 250

old / new
orientation
street / courtyard
shared space
parking / balcony & courtyard

62B OLD

1 550 m2

typologies

dwelling
storage
parking

dwelling amount

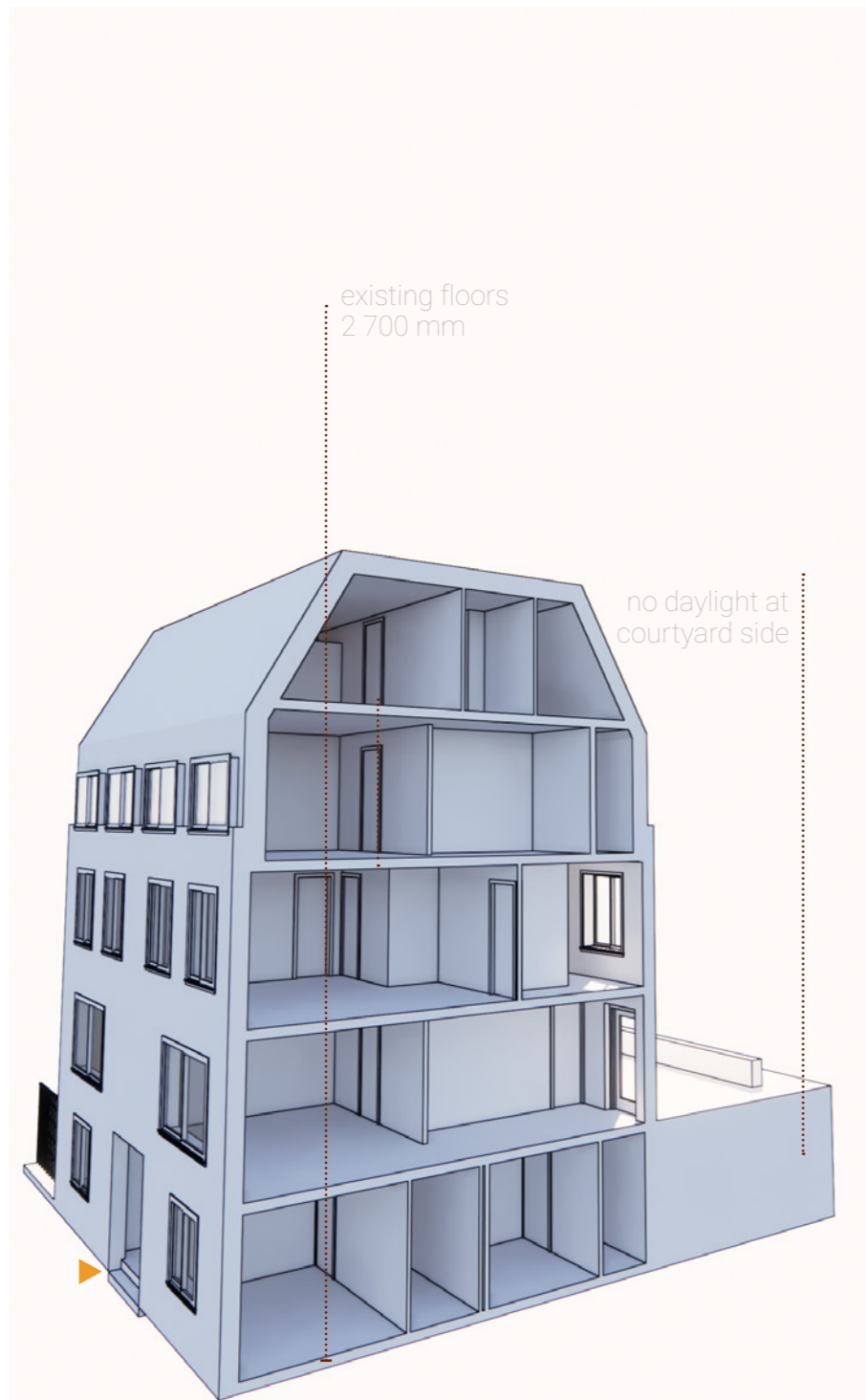
14 apartments

02 with 1 floor
12 with 2 floors

04 with 1 bedroom
09 with 2 bedrooms
01 with 3 bedrooms

residents

14 - 39 people



62B NEW

3 034 m2

typologies

dwelling
storage
shared space

dwelling amount

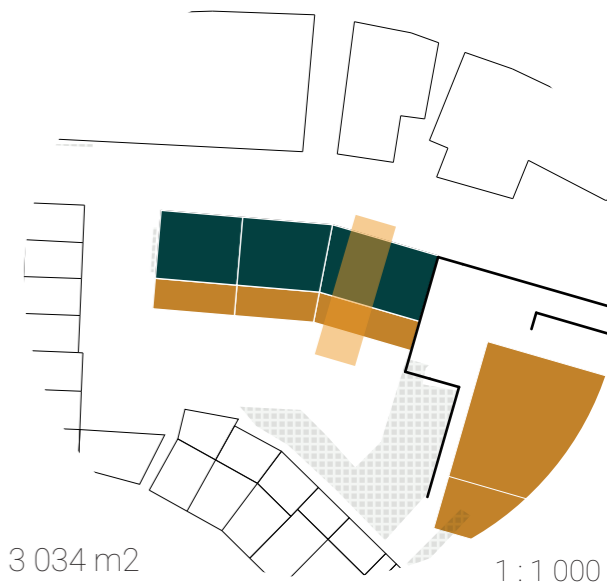
12 townhouses
05 apartments

05 with 1 floor
12 with 2 floors

01 with 2 bedrooms
06 with 3 bedrooms
03 with 3 bedrooms
06 with 4 bedrooms

residents

17 - 69 people

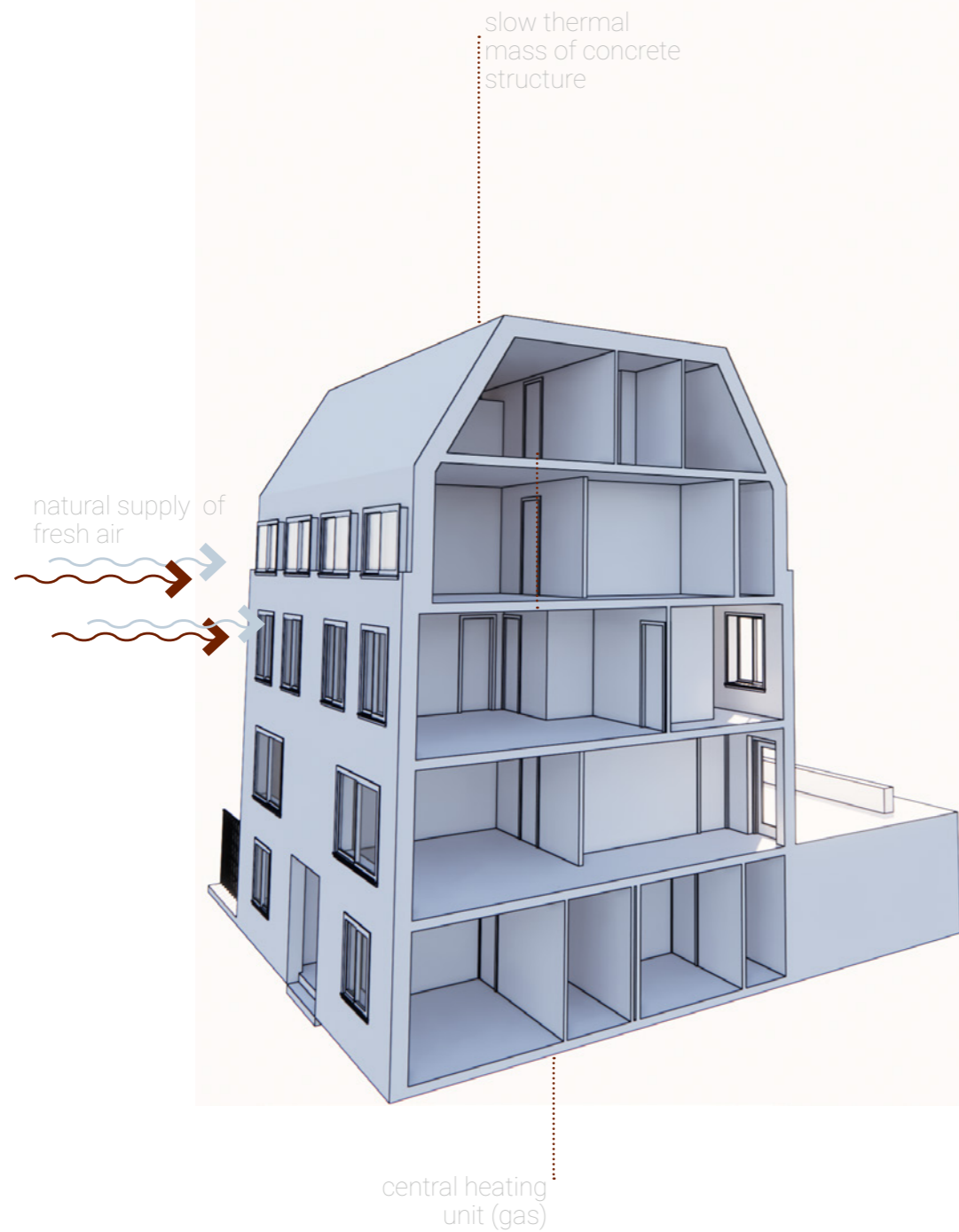


PROJECT
Green Balcony Nijmegen
design renew 62B

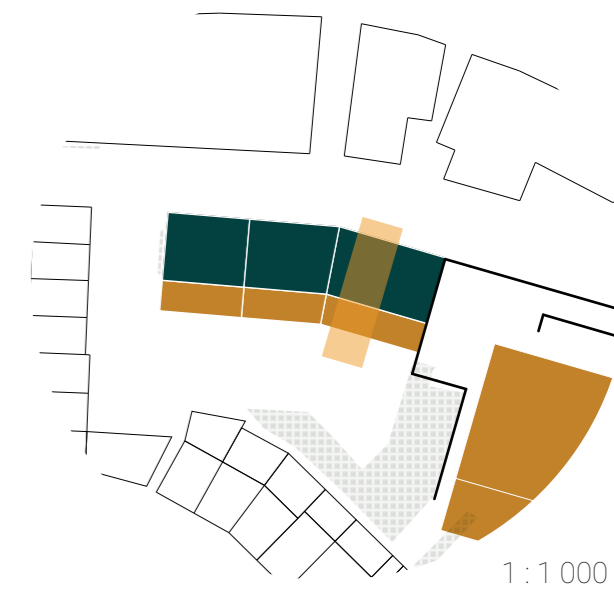
DRAWING
section fragment typology
concept existing / new

SCALE
perspective

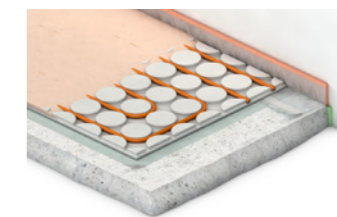
62B OLD



62B NEW



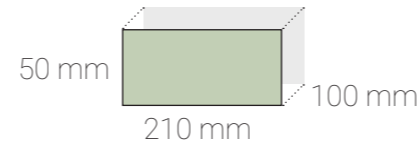
external sun protection:
- DucoTwin 120 system
- light colored brickwork
- urban cooling: greenery shading, green roofs, surrounding soil



PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
section fragment climate
concept existing / new

SCALE
perspective

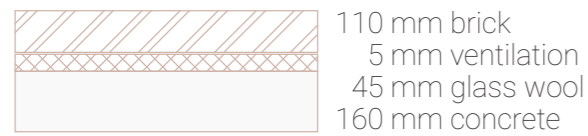


- > made from at least 60% waste
- > CO₂ compensated production
- > 91 kg waste / m² upcycled
- > compliant with industry standards
- > available in custom shapes and sizes
- > suitable for walls and flooring
- > suitable for interiors and exteriors
- > the future of circular construction!



62B OLD

facade

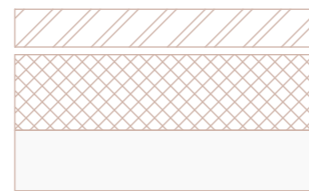


110 mm brick
5 mm ventilation
45 mm glass wool
160 mm concrete

320 mm total (Rc 1,61 m²K/W)

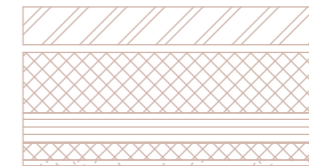
62B NEW

facade



100 mm brick
20 mm ventilation
200 mm hemp fibre
160 mm concrete

480 mm total (Rc 5,38 m²K/W)



100 mm brick
20 mm ventilation
160 mm hemp fibre
80 mm clt panel
45 mm hemp fibre
15 mm gypsum

420 mm total

interior walls



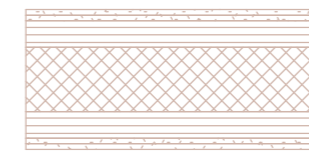
20 mm gypsum
160 mm concrete
20 mm gypsum

200 mm total



15 mm gypsum
90 mm hemp fibre
160 mm concrete
90 mm hemp fibre
15 mm gypsum

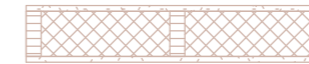
370 mm total



15 mm gypsum (2x)
70 mm clt panel
170 mm hemp fibre
70 mm clt panel
15 mm gypsum (2x)

370 mm total

interior walls



15 mm gypsum
80 mm hemp fibre OR
120 mm hemp fibre
15 mm gypsum

110 / 150 mm total

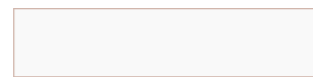


biofib
chanvre

THERMAL INSULATION
100% HEMP

Thermal: ●●●● Acoustic: ●●●●
Phase displacement: ●●●● Hygrothermic: ●●●●

floors



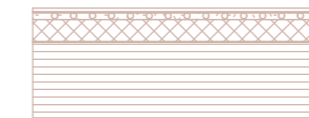
unknown
180 mm concrete

180-200 mm total



10 mm wooden floor
20 mm fermacell castellated panel (floor heating)
60 mm fermacell leveling
180 mm concrete
20 mm gypsum

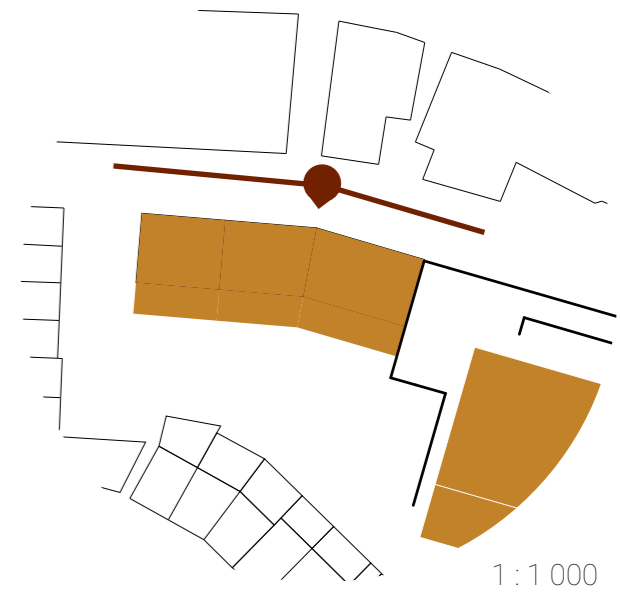
290 mm total



10 mm wooden floor
20 mm fermacell castellated panel (floor heating)
60 mm fermacell leveling
200 mm clt panel

290 mm total

floors



11° corner

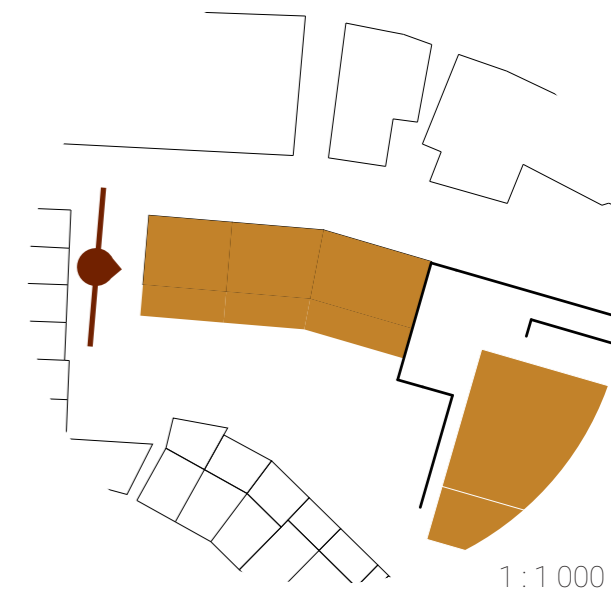


Imkeliene Boersma _ 5114.721

PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
facade north new

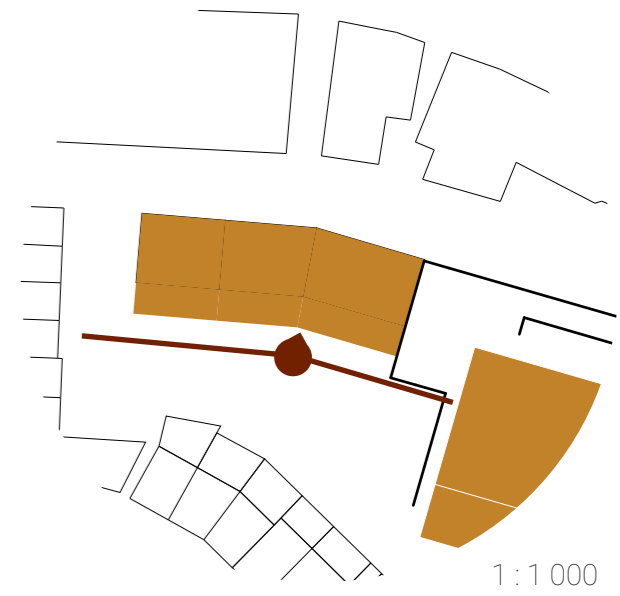
SCALE
1 : 150



PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
facade west new

SCALE
1 : 150



11° corner

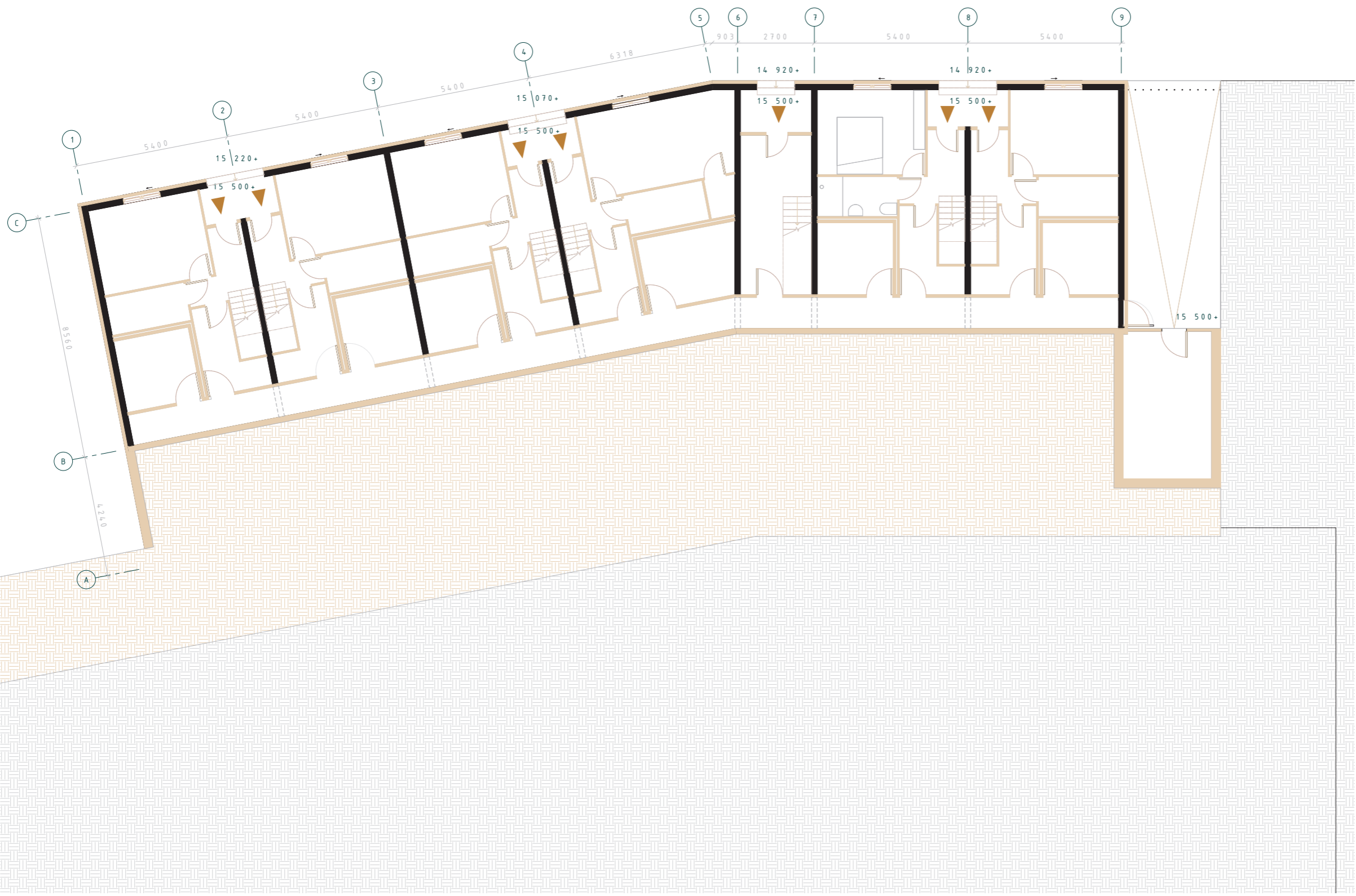


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PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
facade south new

SCALE
1 : 150

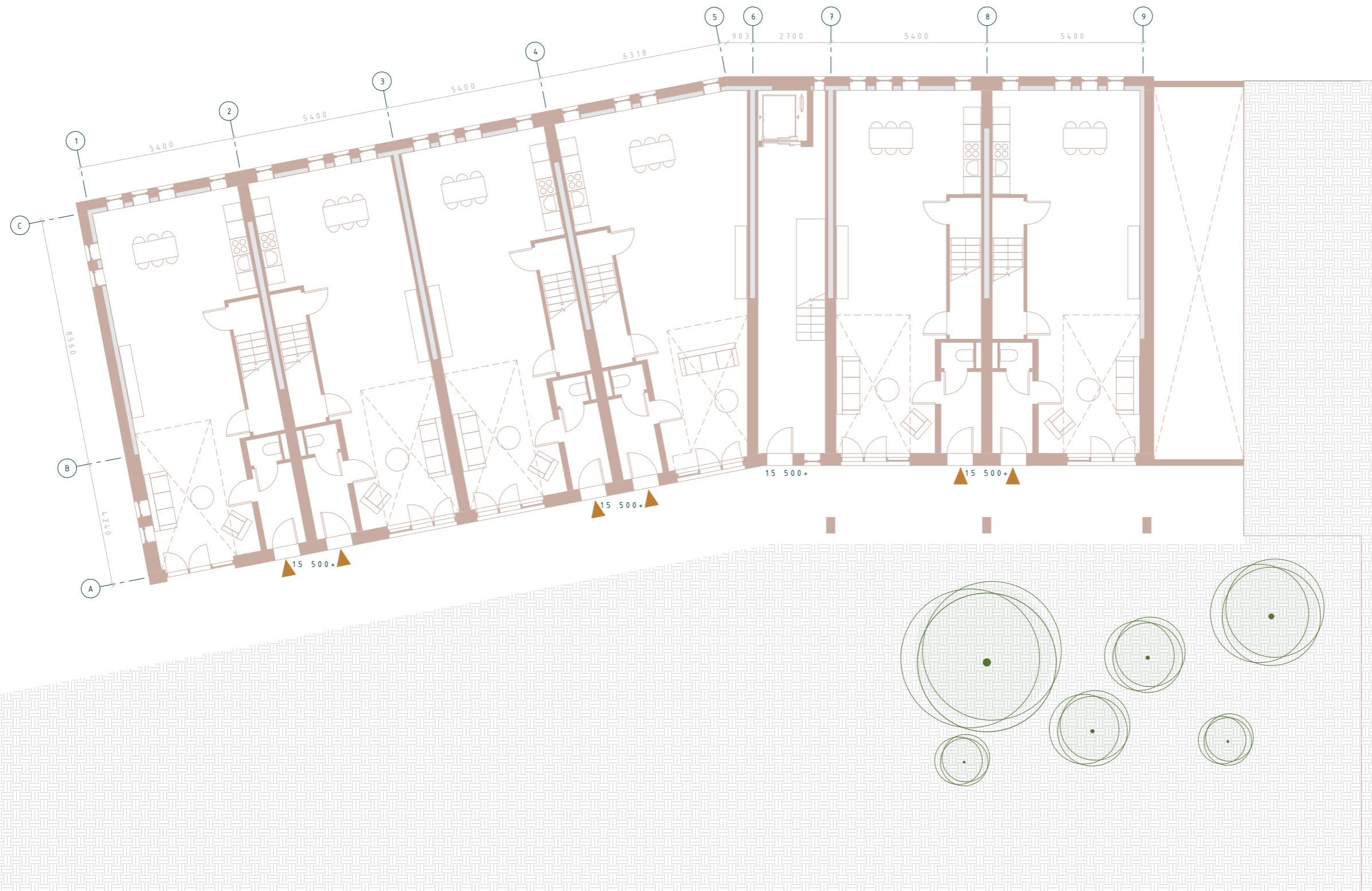


PROJECT
 Green Balcony Nijmegen
 design renew 62B

DRAWING
 plan demolish 0.

SCALE
 1 : 150



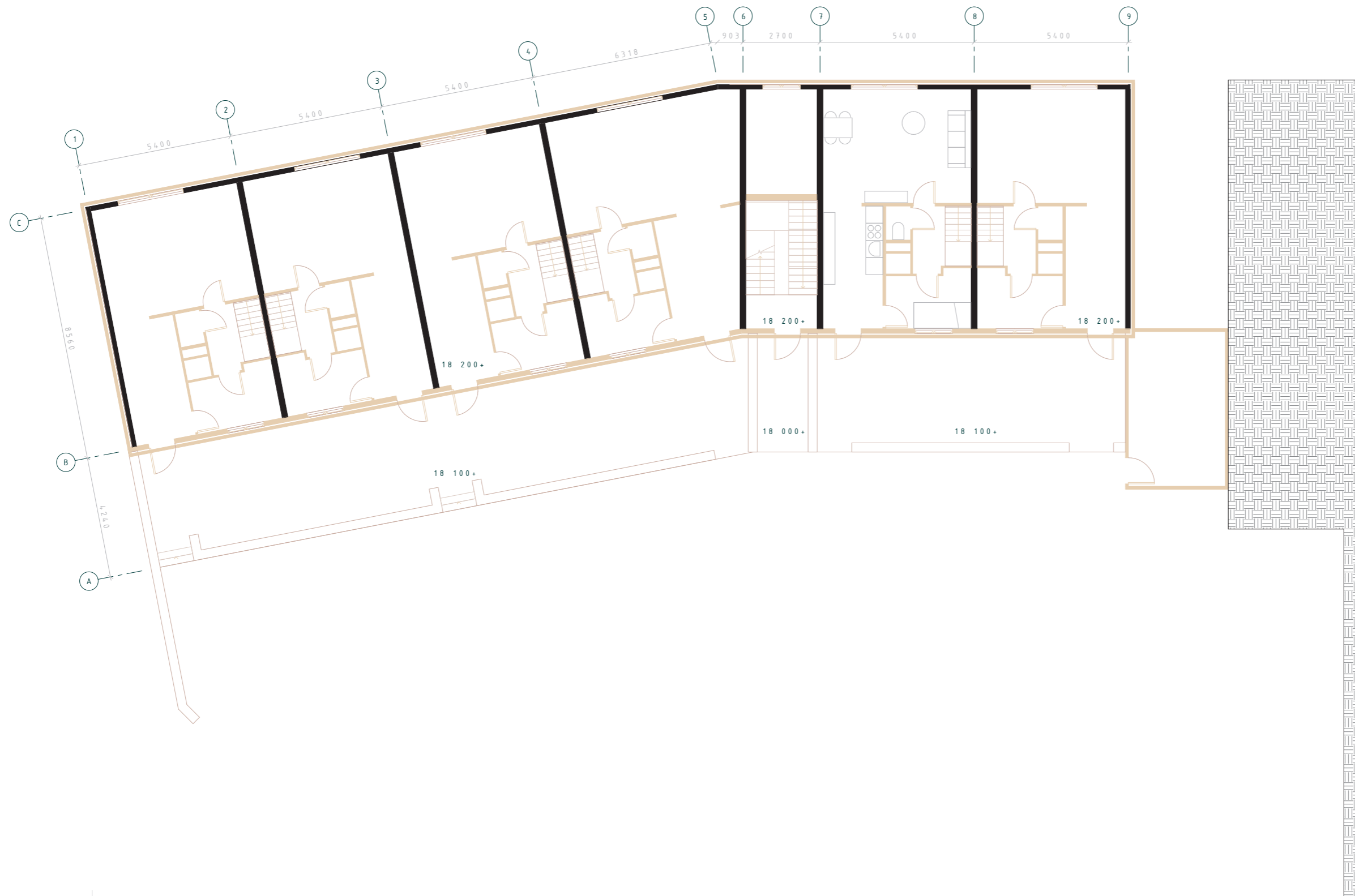


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan new 0.

SCALE
1 : 150





PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan demolish 1.

SCALE
1 : 150



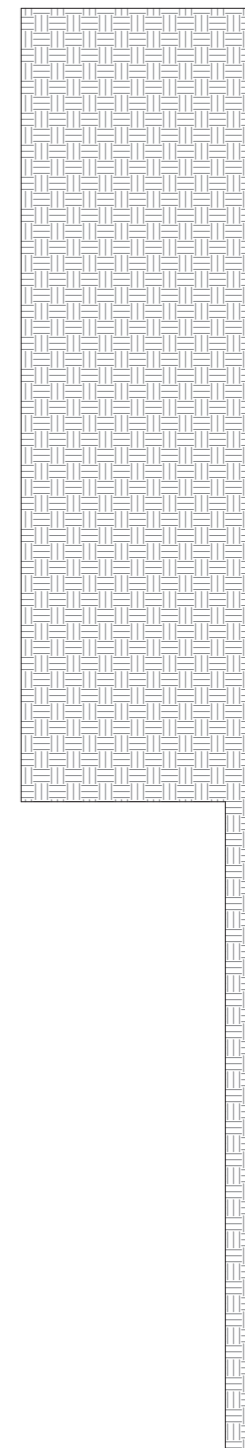
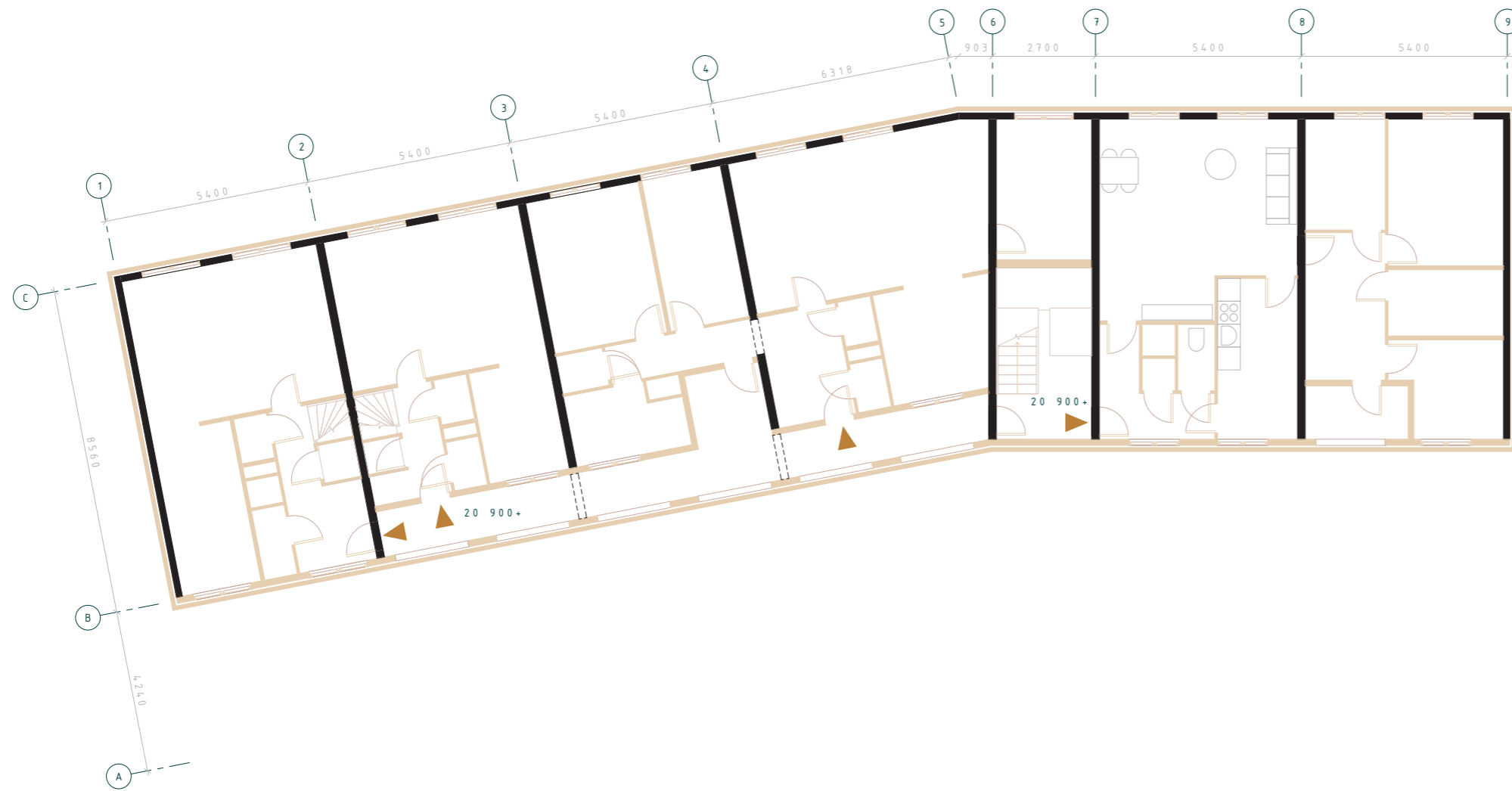


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan new 1.

SCALE
1 : 150



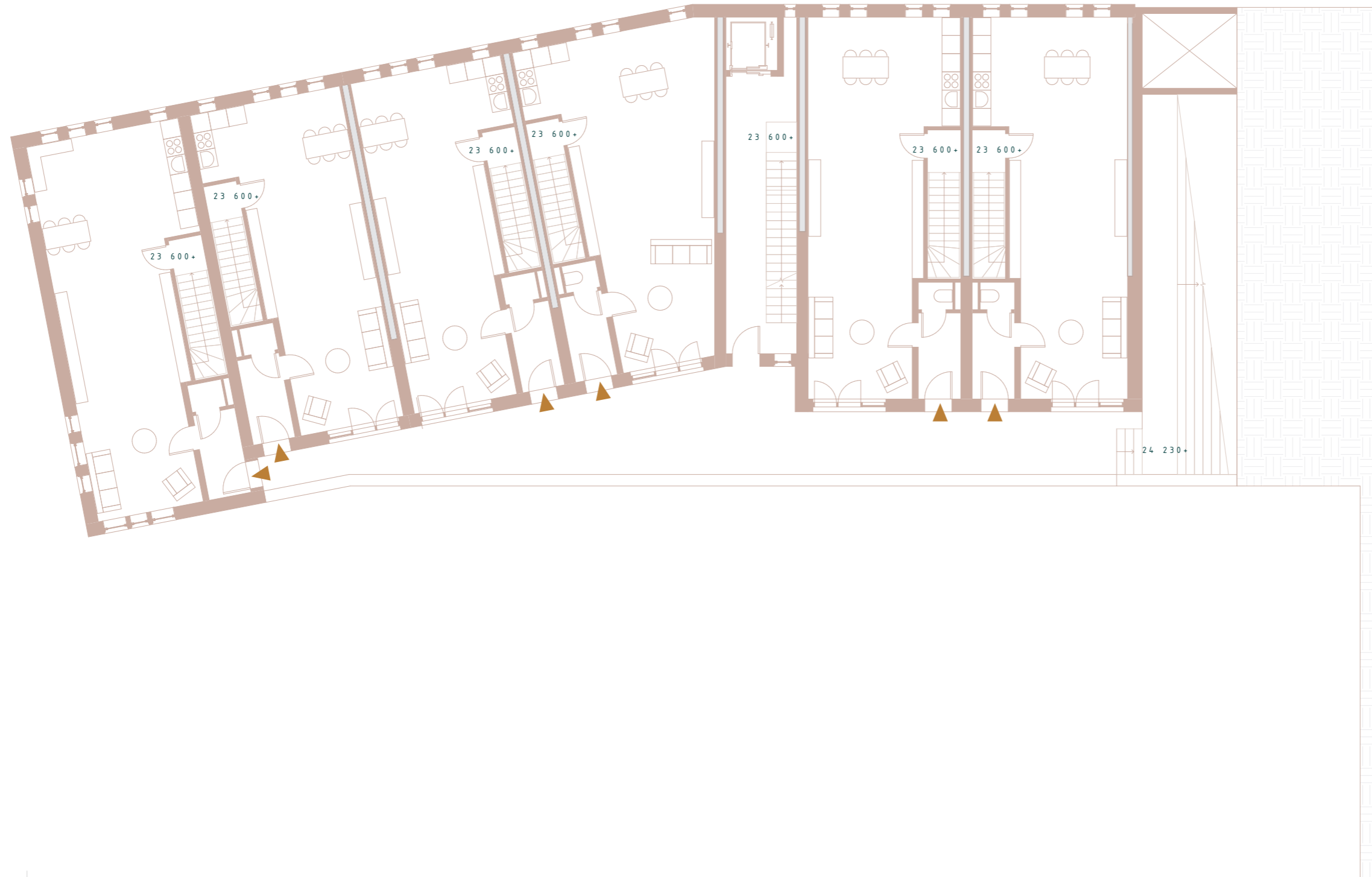


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan demolish 2.

SCALE
1 : 150



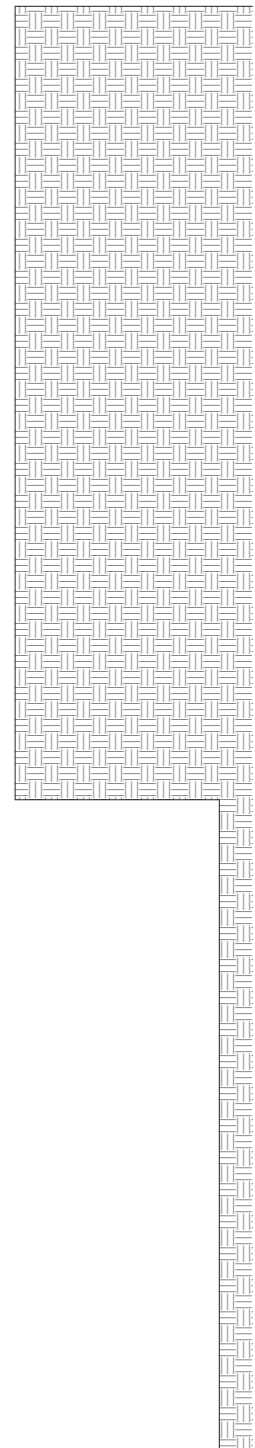
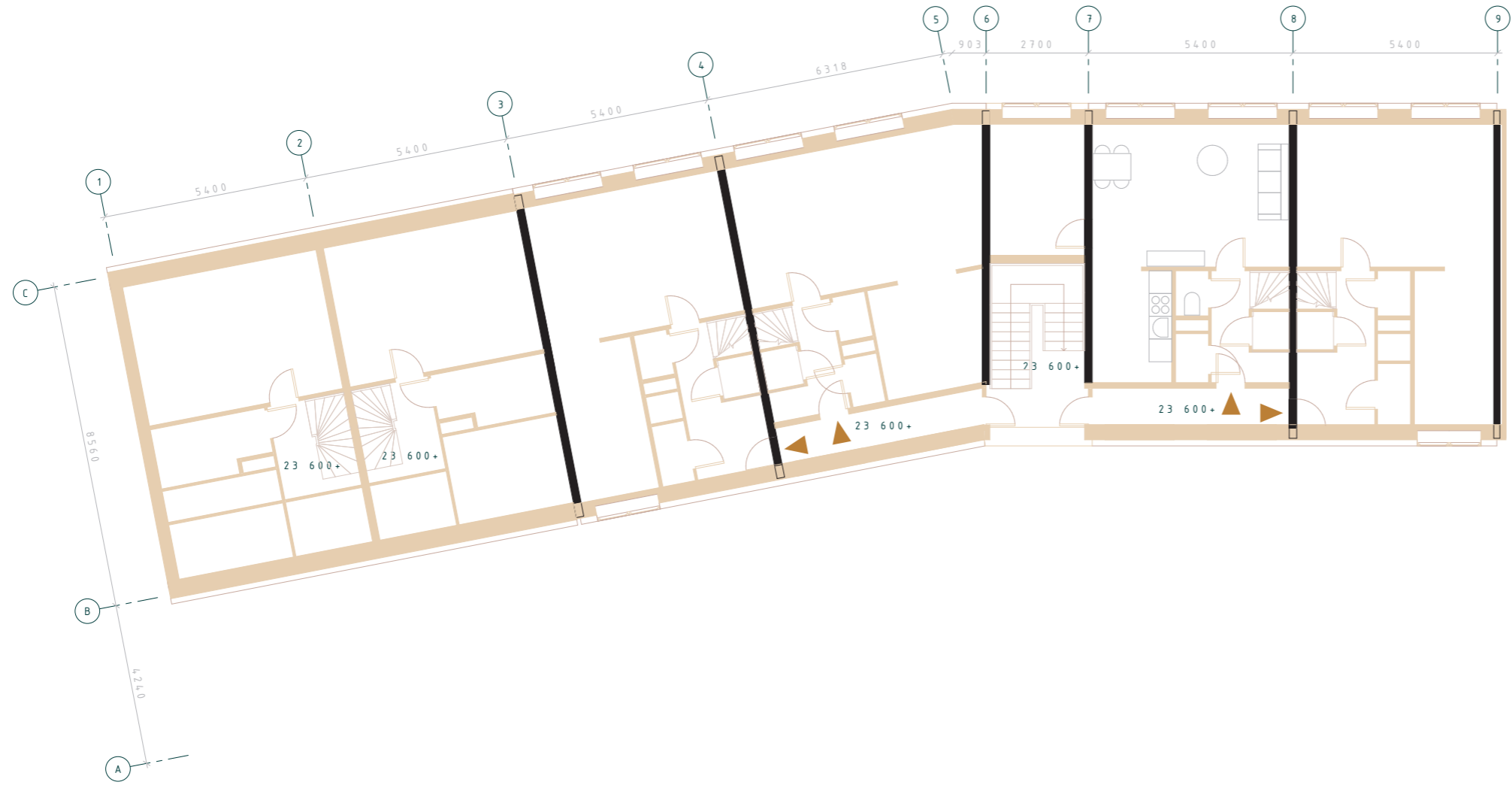


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan new 2.

SCALE
1 : 150



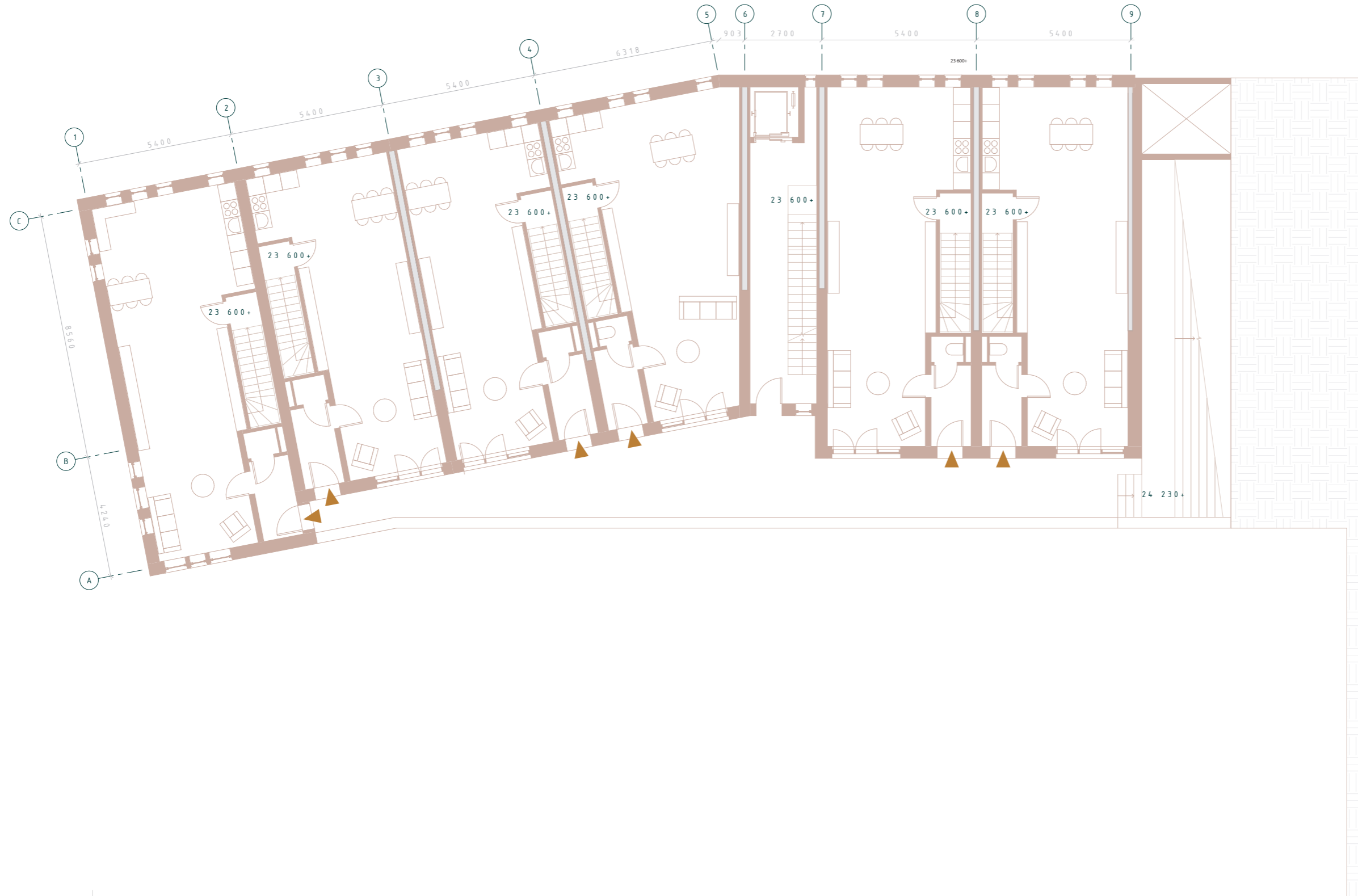


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan demolish 3.

SCALE
1 : 150



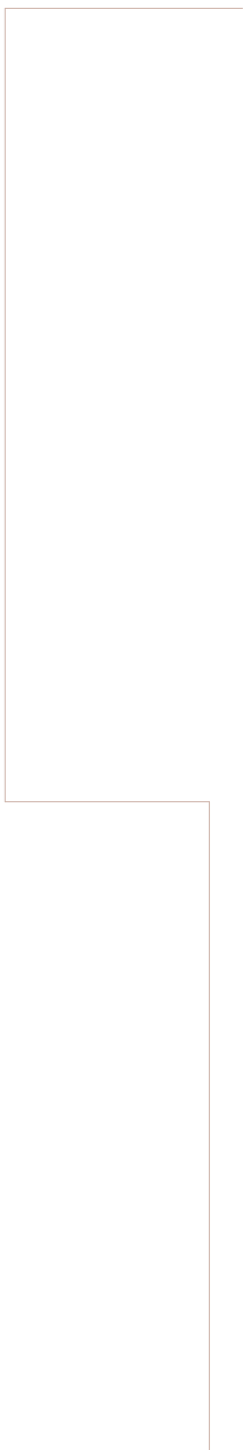
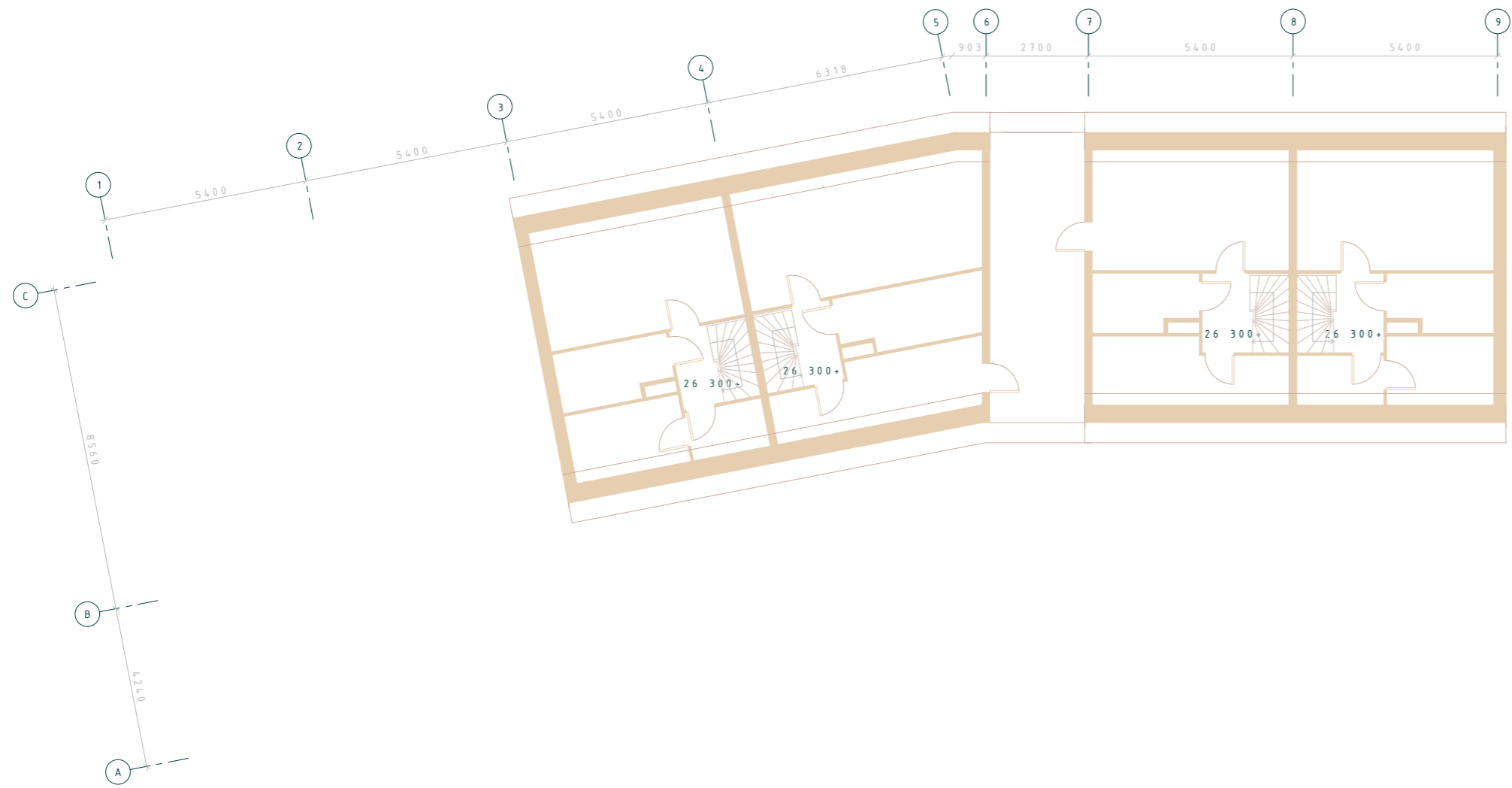


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan new 3.

SCALE
1 : 150





PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan demolish 4.

SCALE
1 : 150



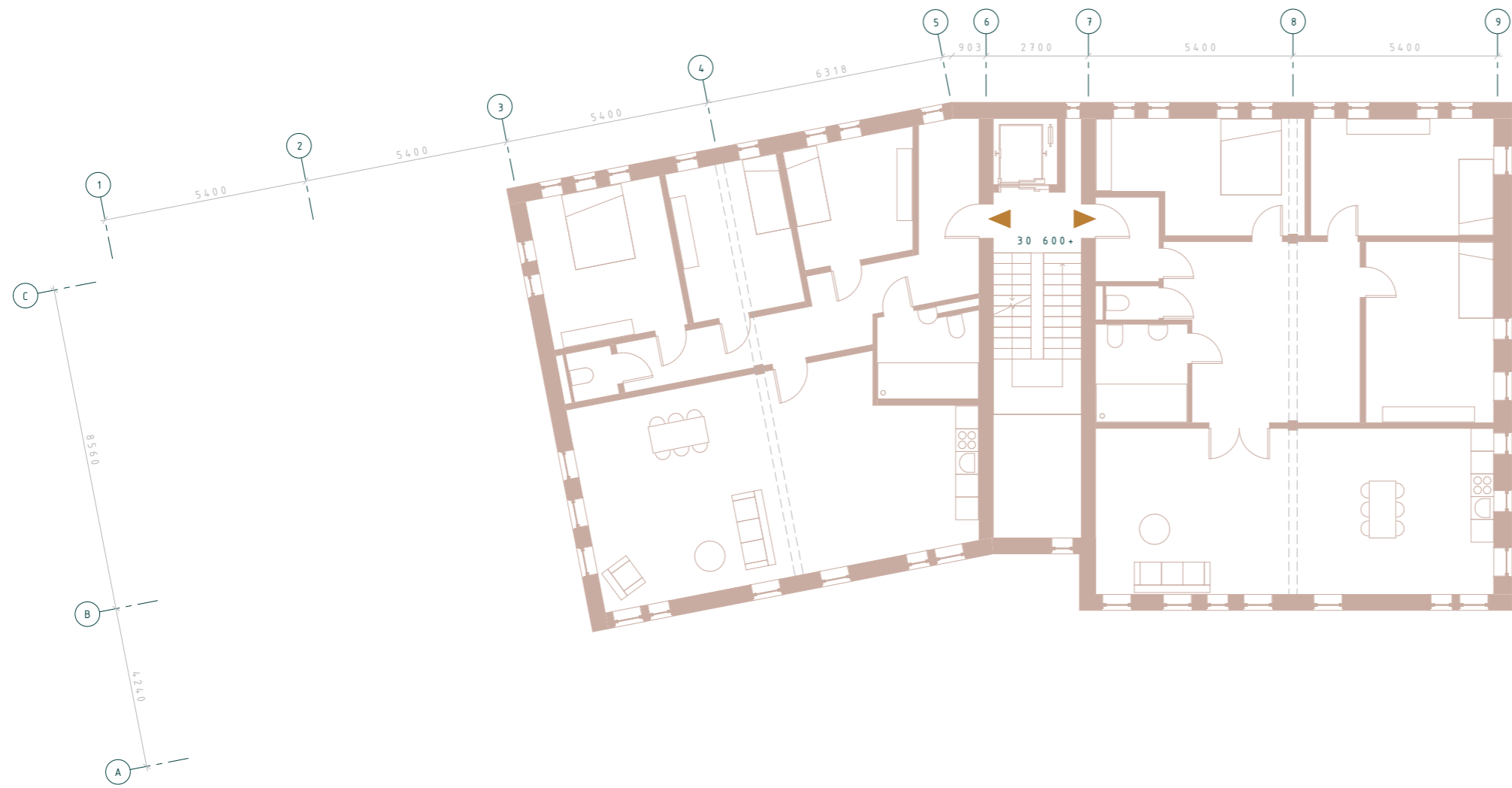


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan new 4.

SCALE
1 : 1 50



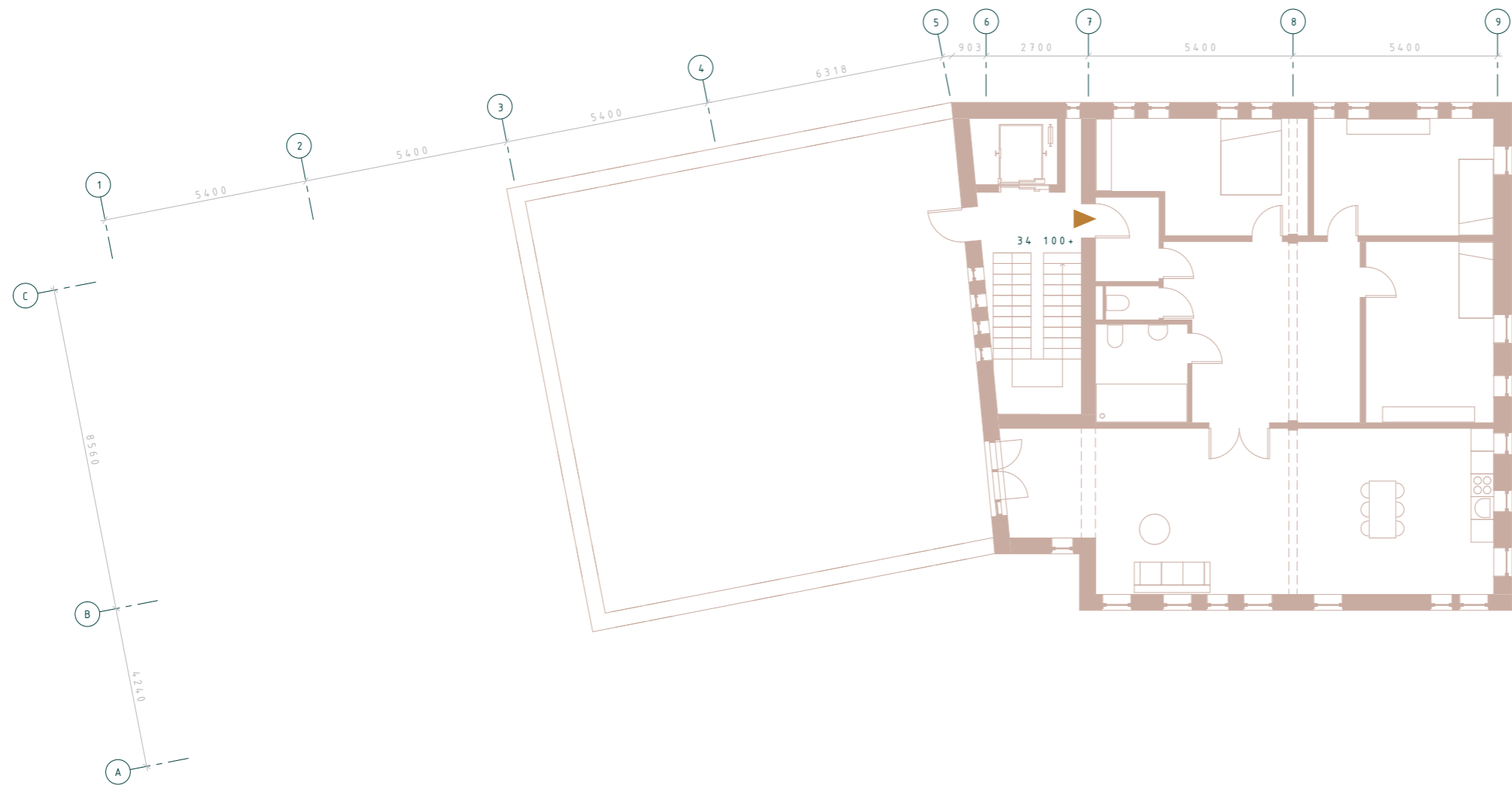


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan new 5.

SCALE
1 : 150



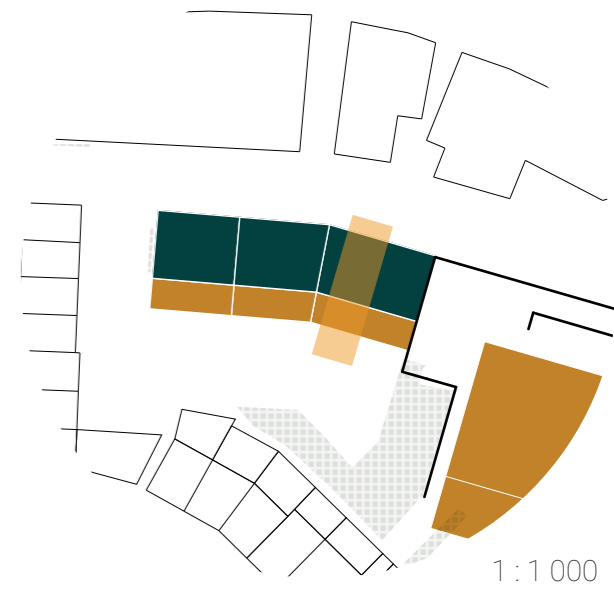
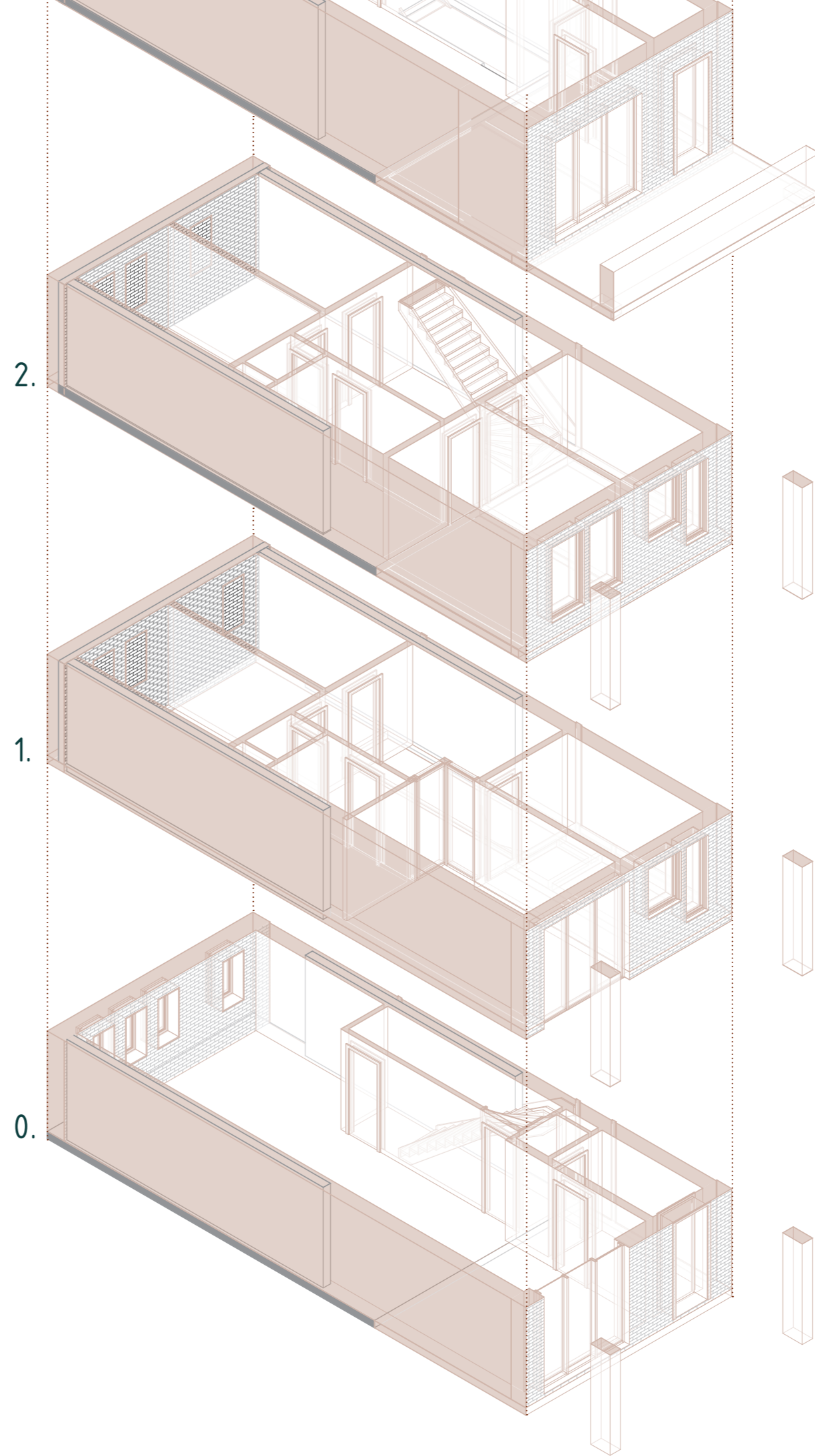
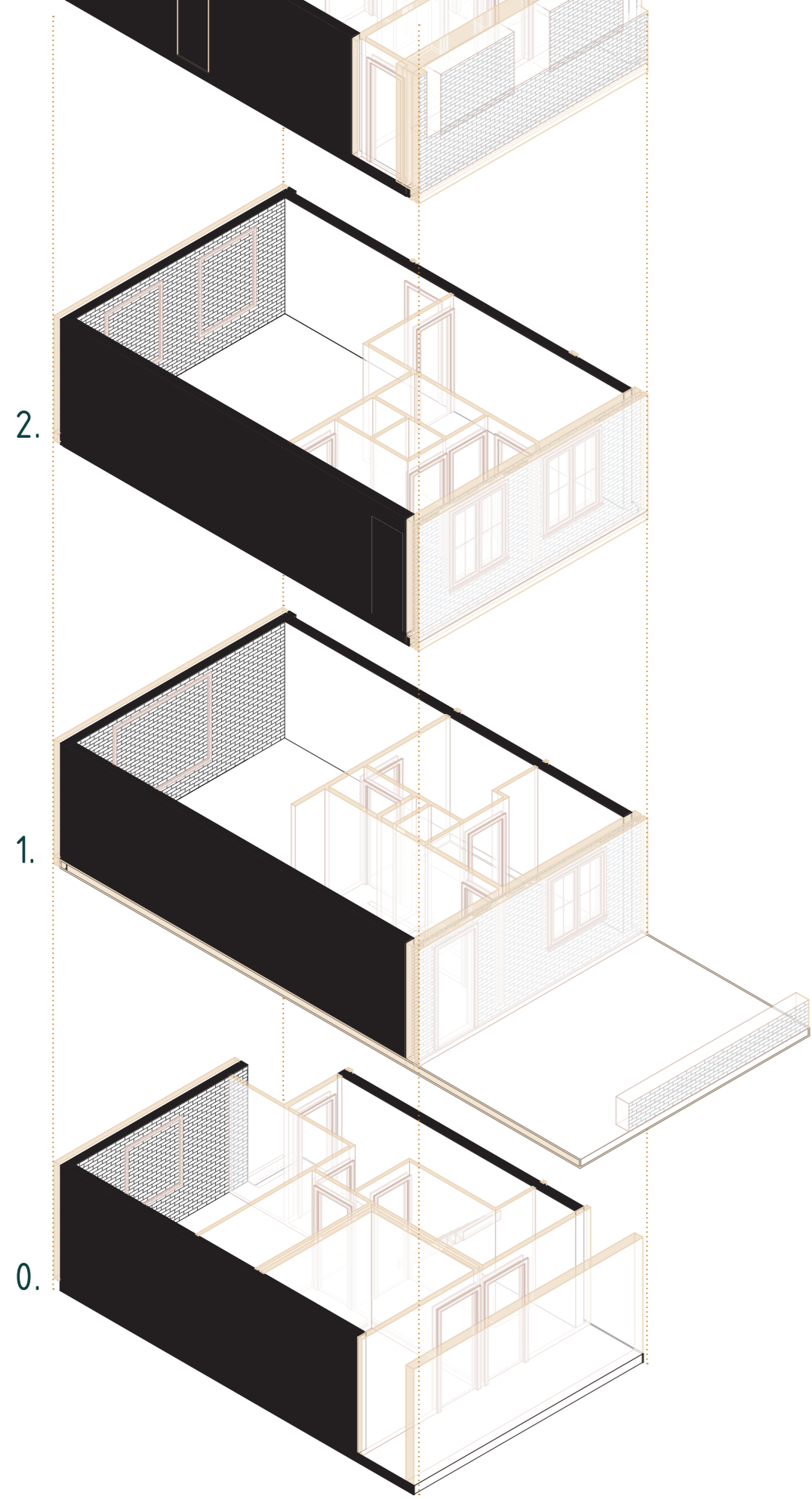


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
plan new 6.

SCALE
1 : 150



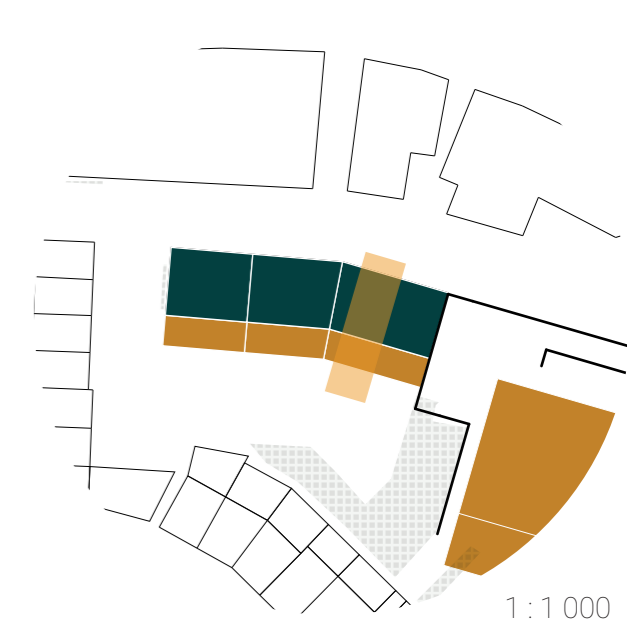
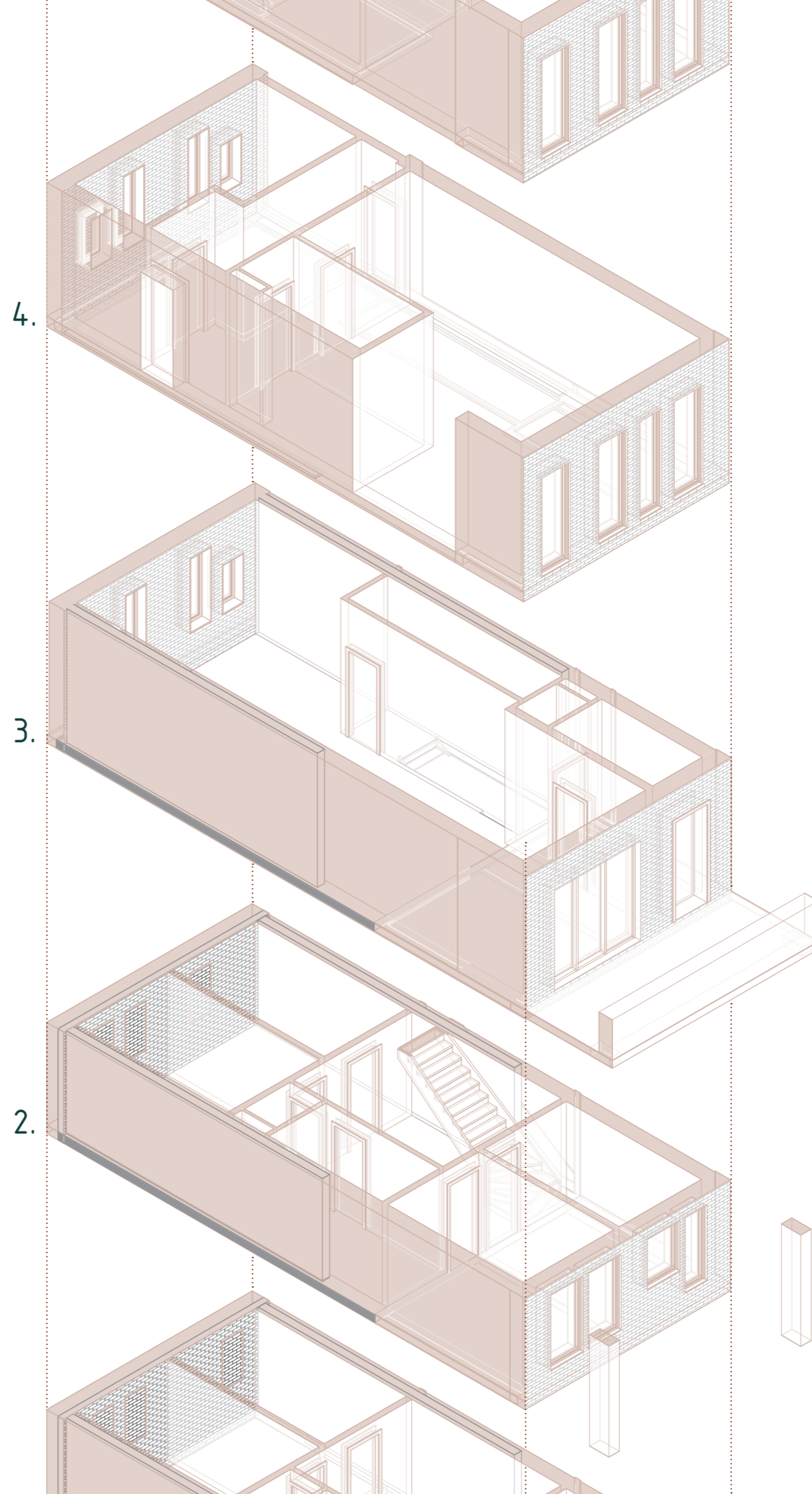
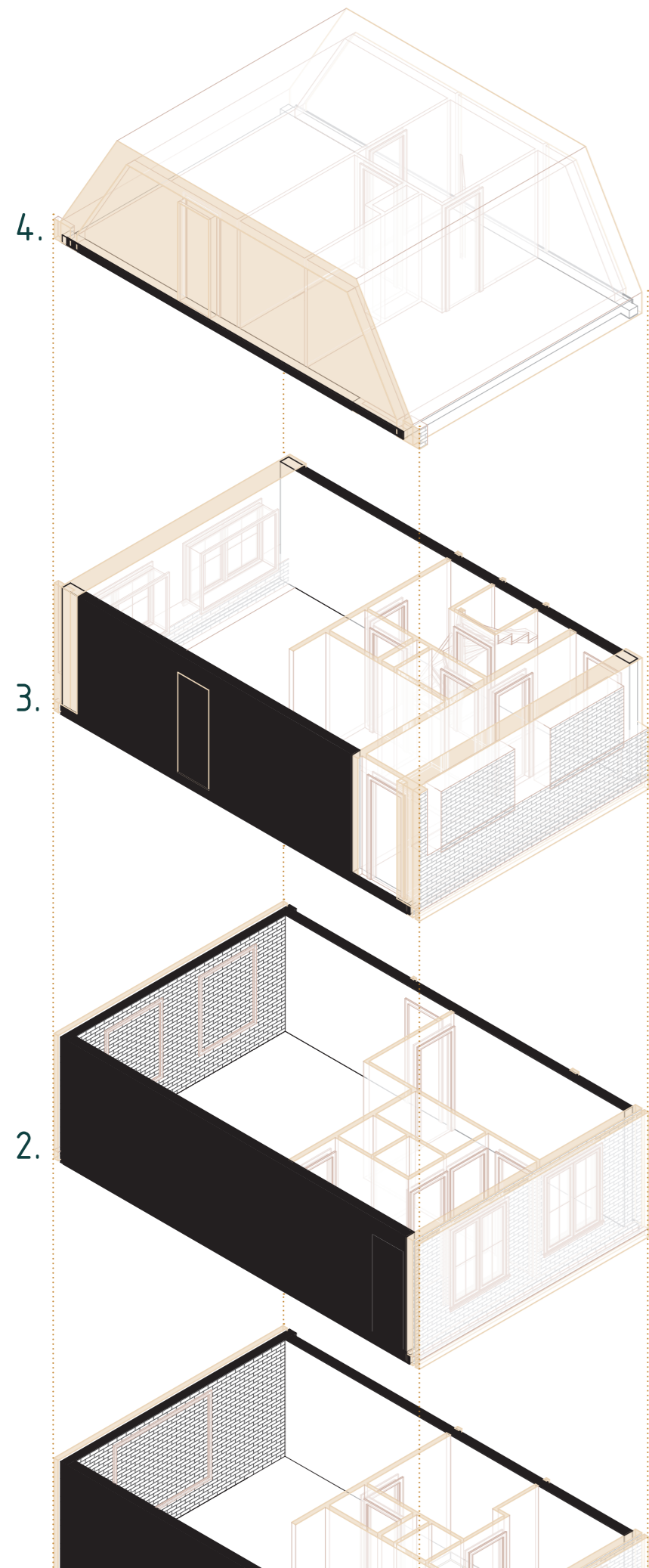


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
isometric fragment
existing / new

SCALE
1 : 100



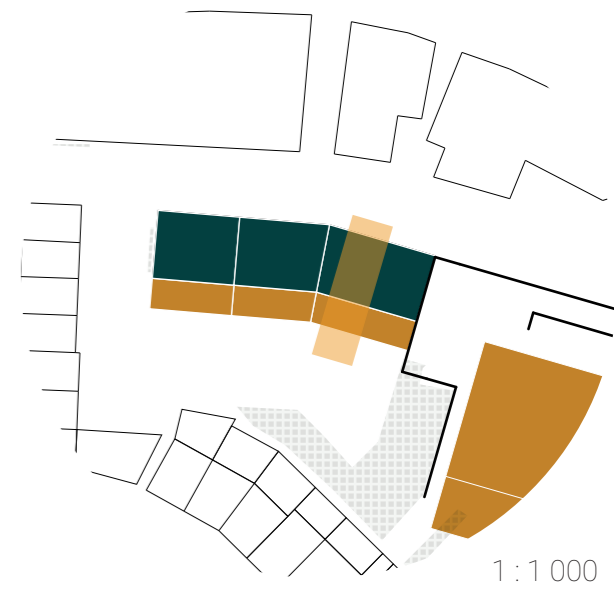
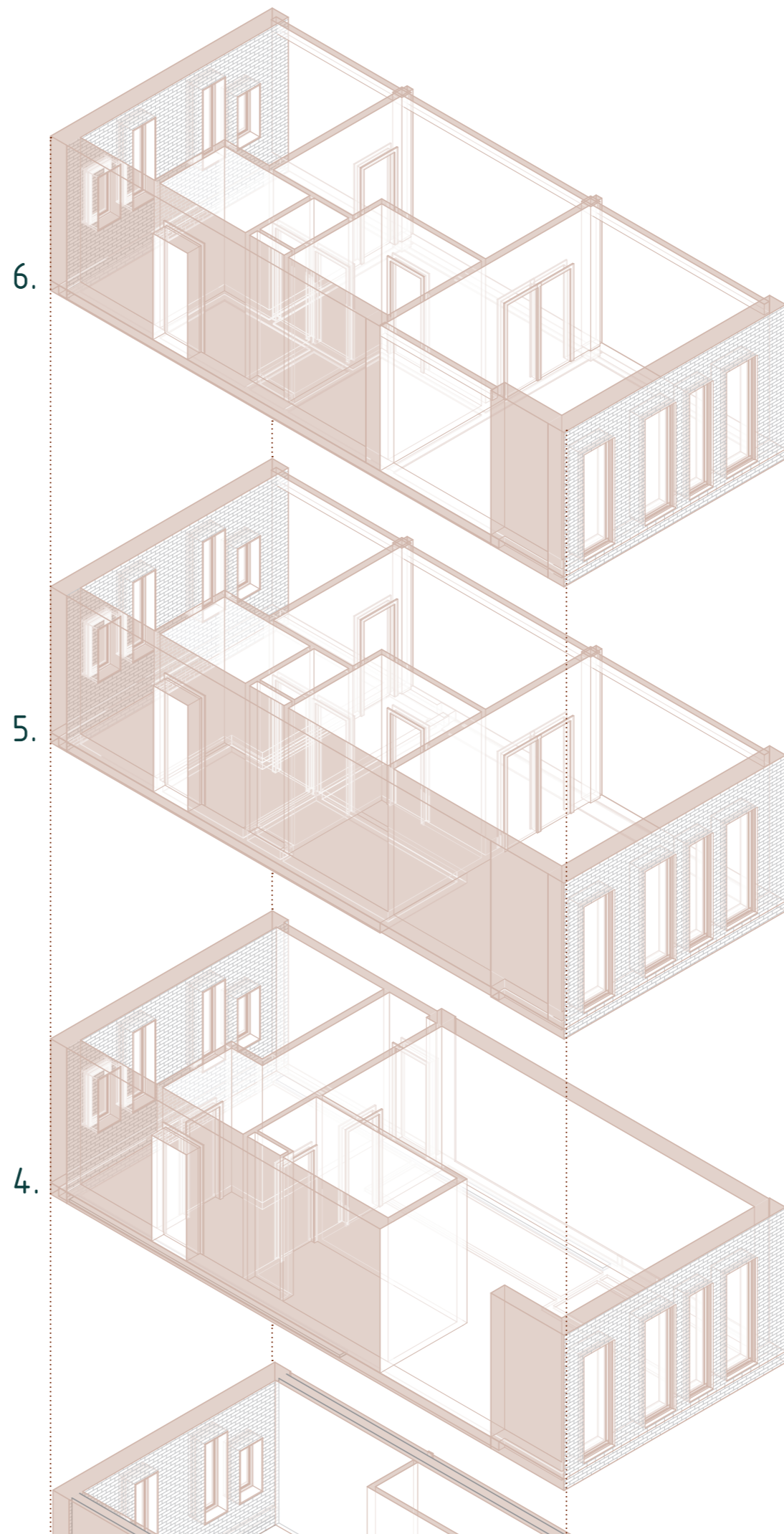
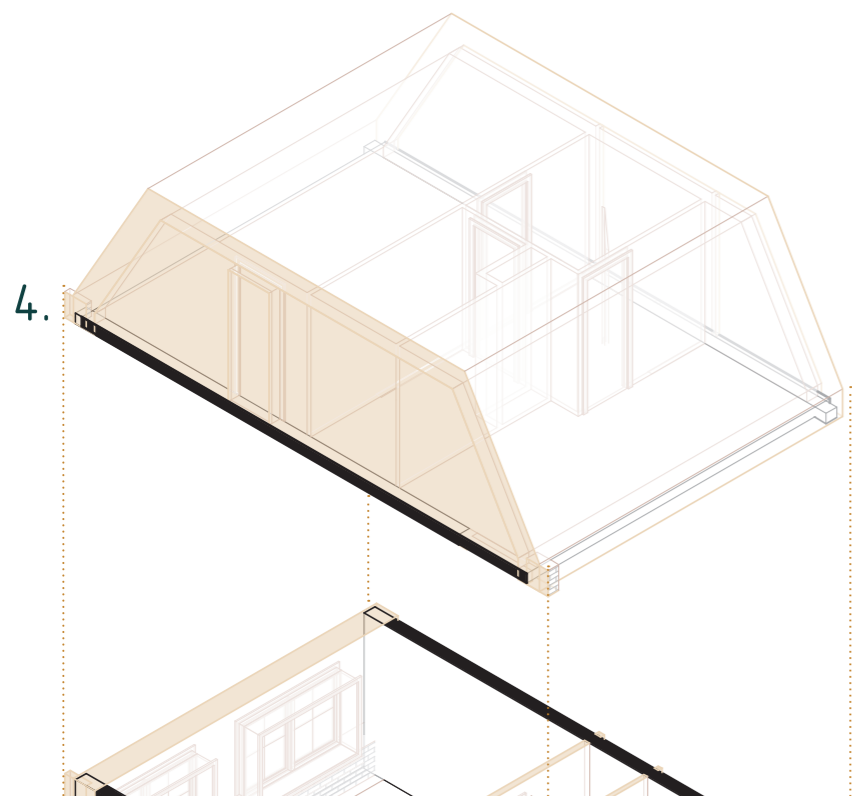


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
isometric fragment
existing / new

SCALE
1:100



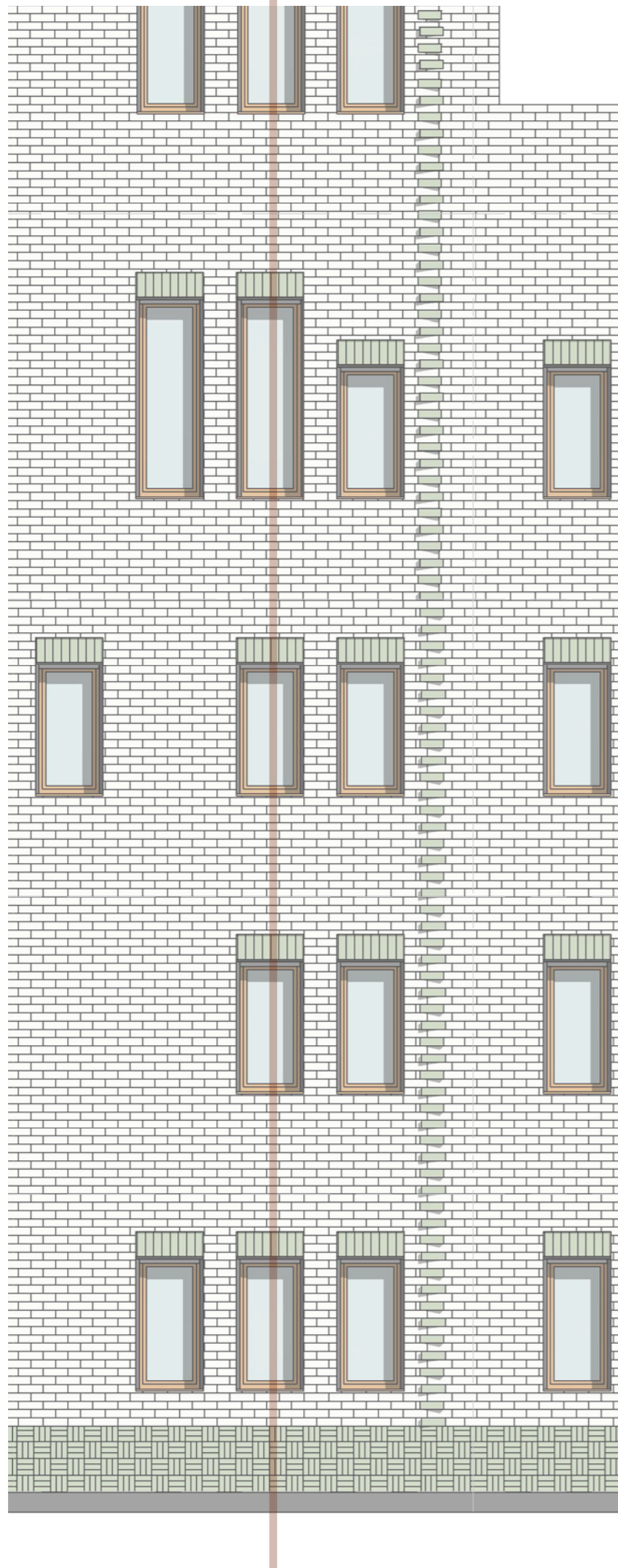


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
isometric fragment
existing / new

SCALE
1 : 100





4. +11 600

100 mm brick
20 mm ventilation
160 mm hemp fibre
80 mm clt panel
45 mm hemp fibre
15 mm gypsum

420 mm total

3. +8 100

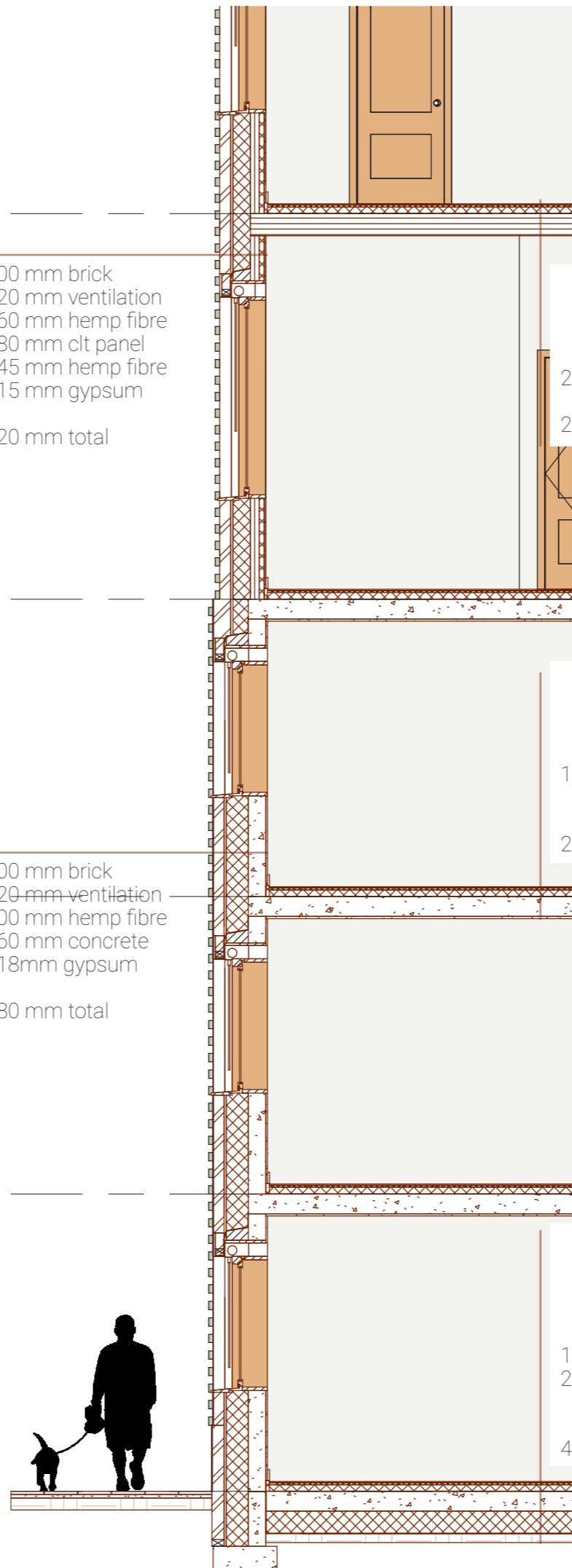
2. +5 400

100 mm brick
20 mm ventilation
200 mm hemp fibre
160 mm concrete
18 mm gypsum

480 mm total

1. +2 700

0. 15 500



10 mm wooden floor
20 mm fermacell castellated panel (floor heating)
60 mm fermacell leveling
200 mm clt panel

290 mm total

10 mm wooden floor
20 mm fermacell castellated panel (floor heating)
60 mm fermacell leveling
180 mm concrete
20 mm gypsum

290 mm total

10 mm wooden floor
20 mm fermacell castellated panel (floor heating)
60 mm fermacell leveling
1 mm protection layer
180 mm concrete
200 mm XPS insulation
2 mm vapour

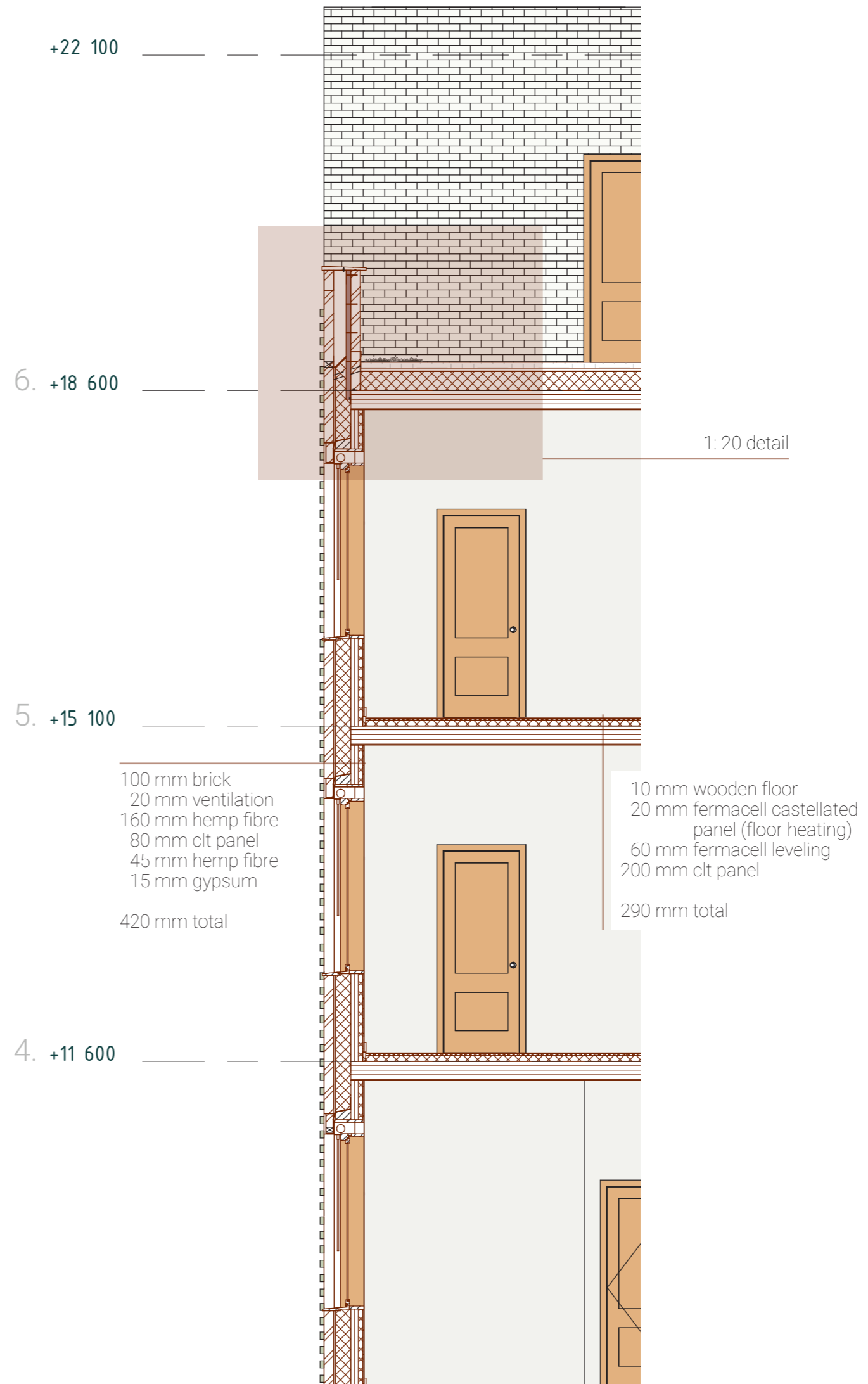
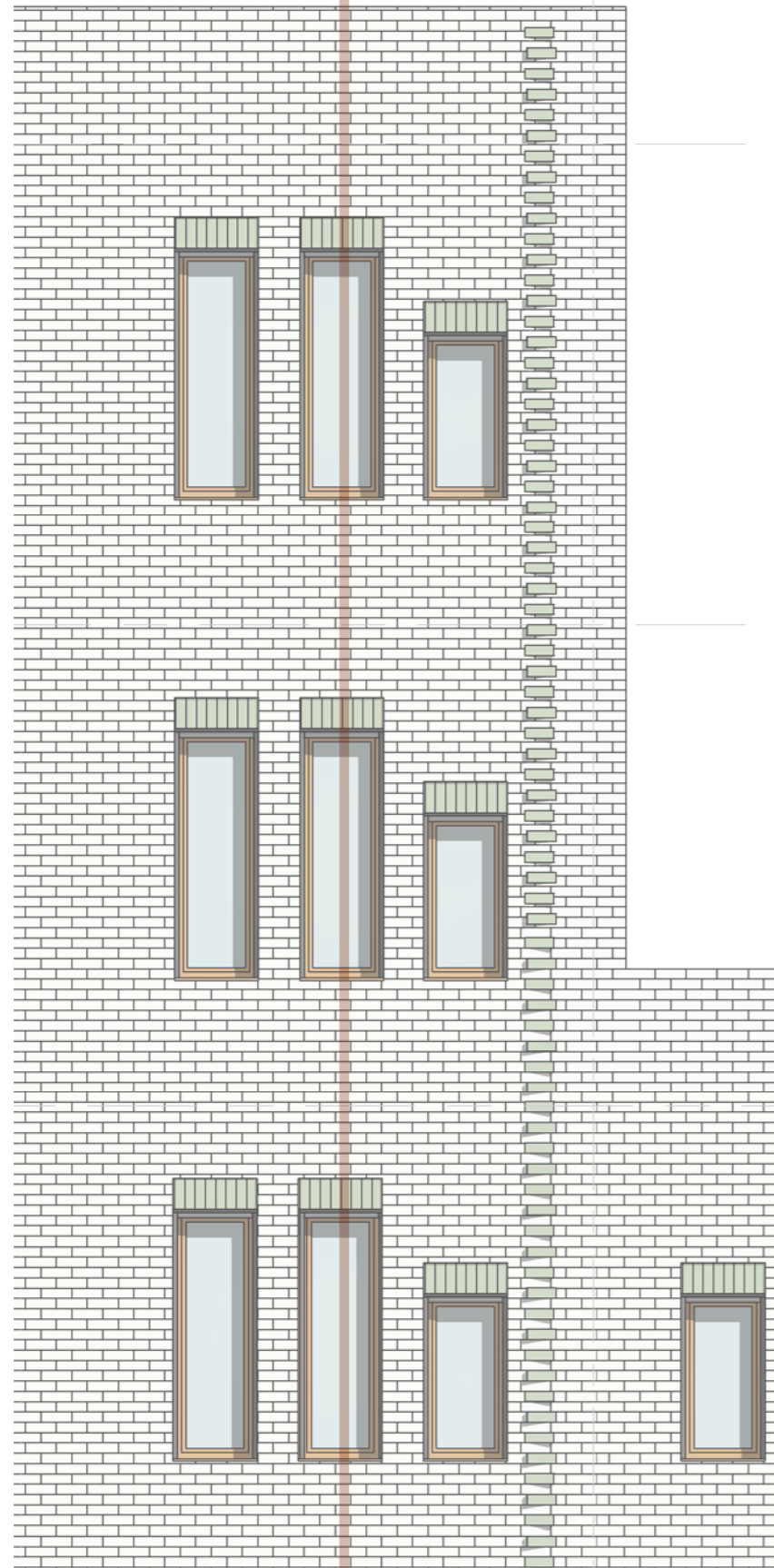
472 mm total

PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
facade fragment northside

SCALE
1 : 50



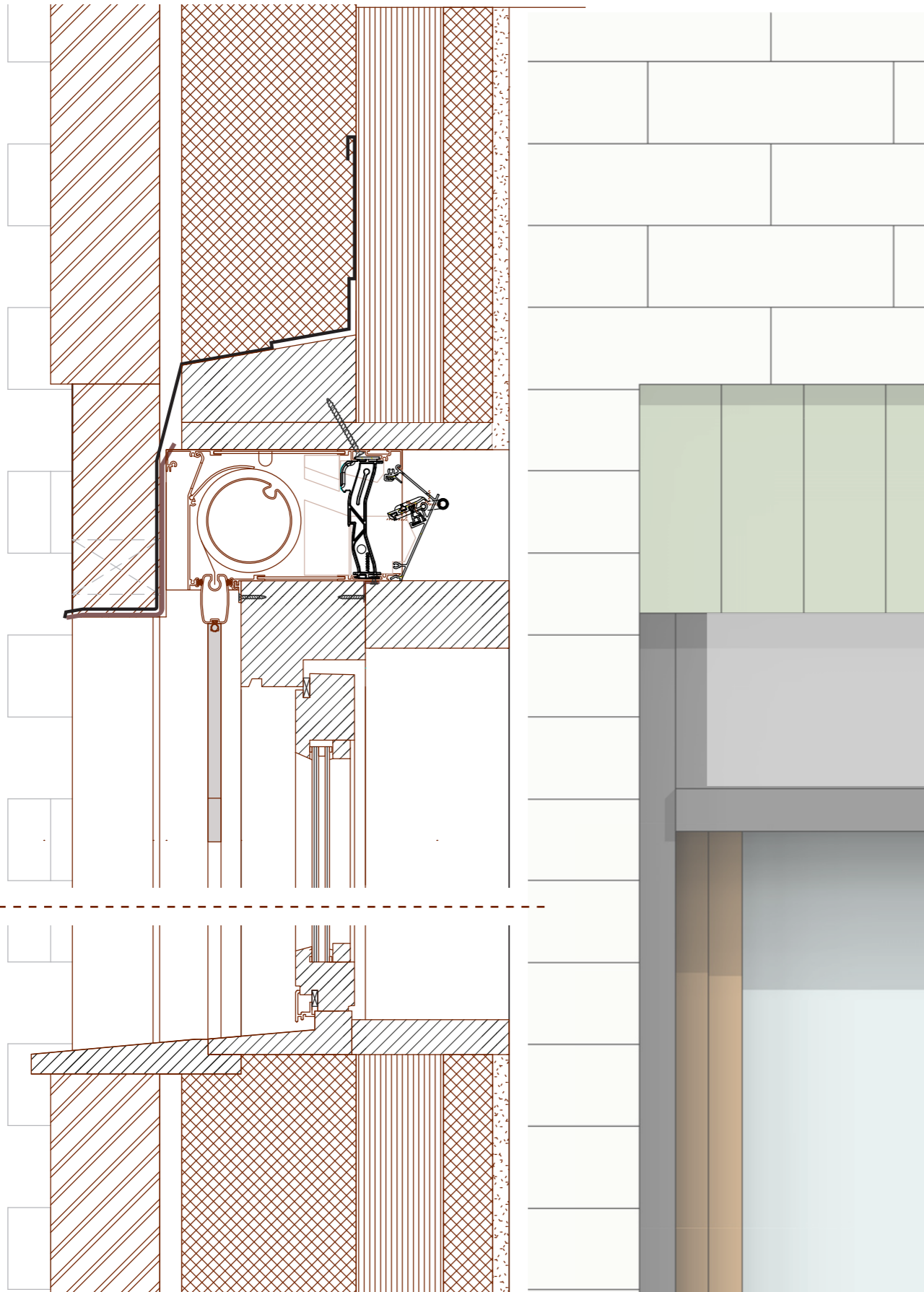


PROJECT
Green Balcony Nijmegen
design renew 62B

DRAWING
facade fragment northside

SCALE
1:50

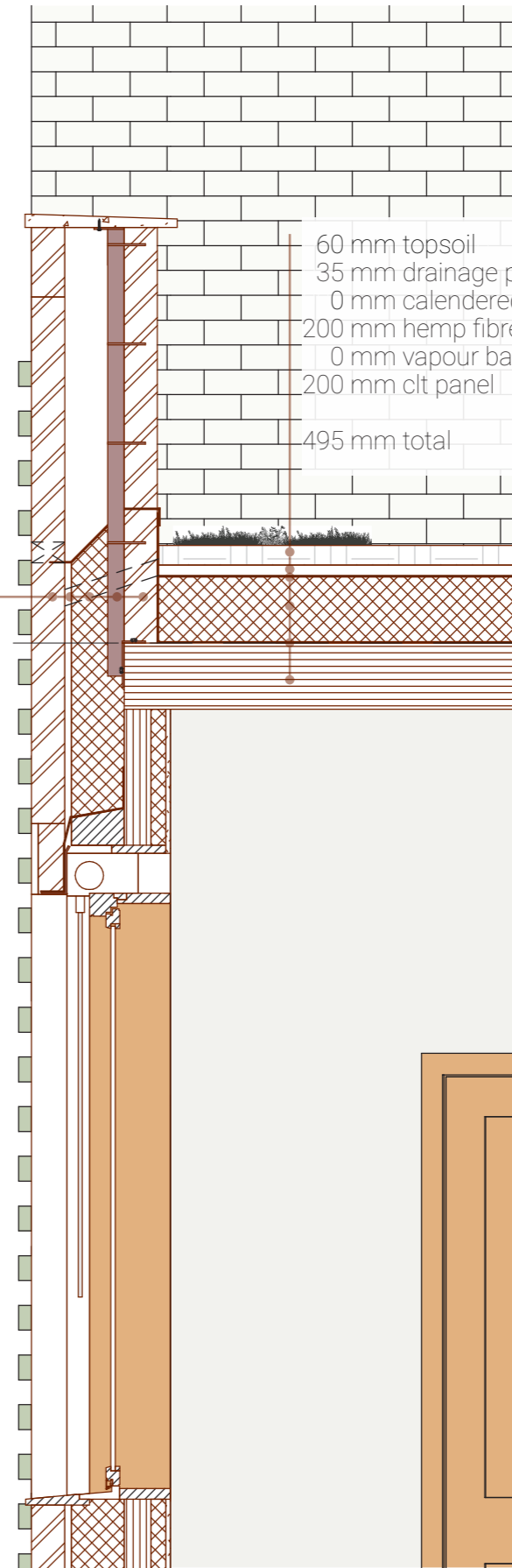




1:5

6. +18.600

100 mm brickwork
 20 mm cavity
 160 mm hemp fibre
 60 mm steel balustrade frame
 100 mm brickwork
 440 mm total



1:20

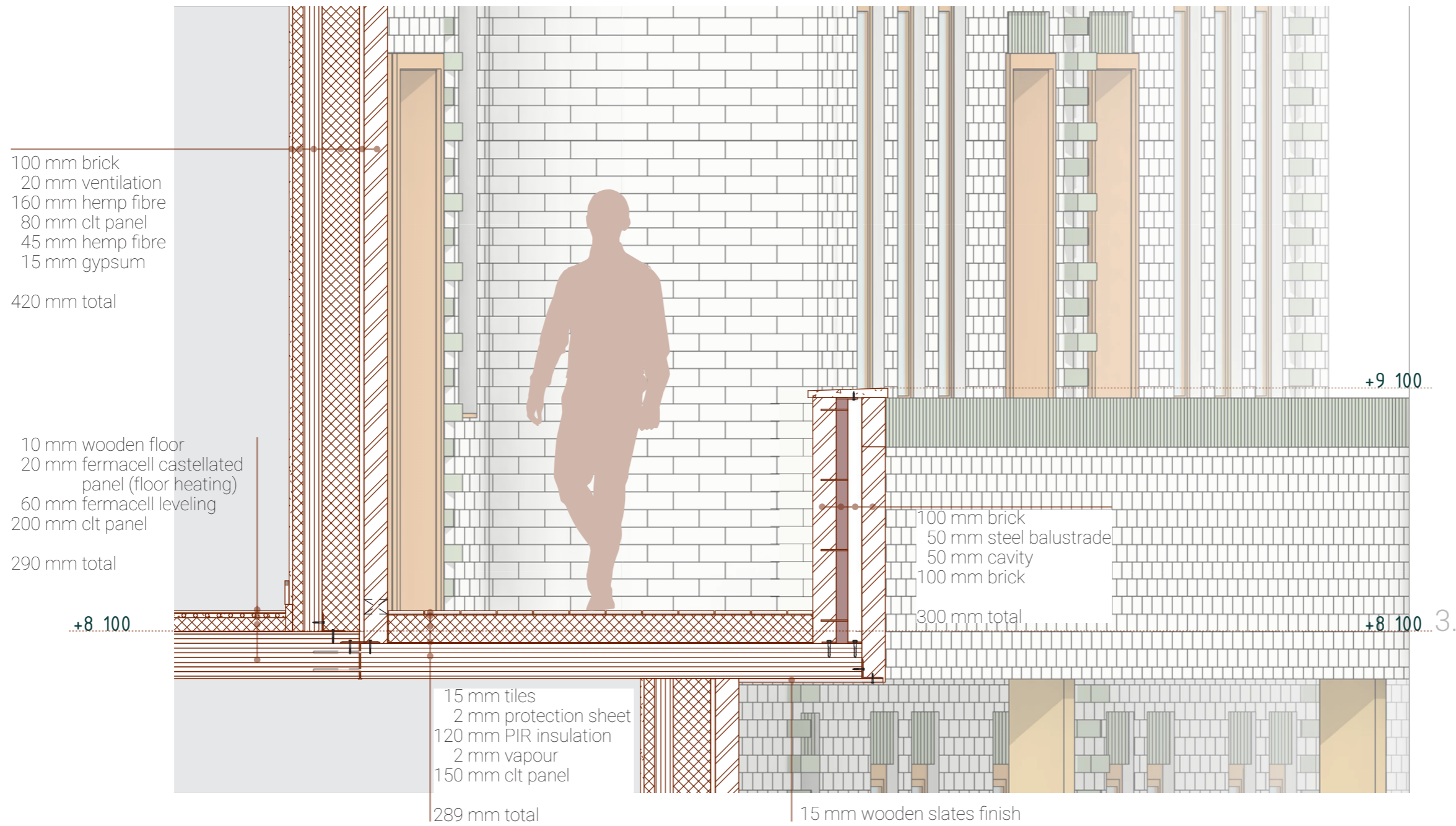
60 mm topsoil
 35 mm drainage protection mat
 0 mm calendered polymeric roofing
 200 mm hemp fibre
 0 mm vapour barrier
 200 mm clt panel
 495 mm total

PROJECT
 Green Balcony Nijmegen
 design renew 62B

DRAWING
 facade fragment northside

SCALE
 1:5 / 1:20



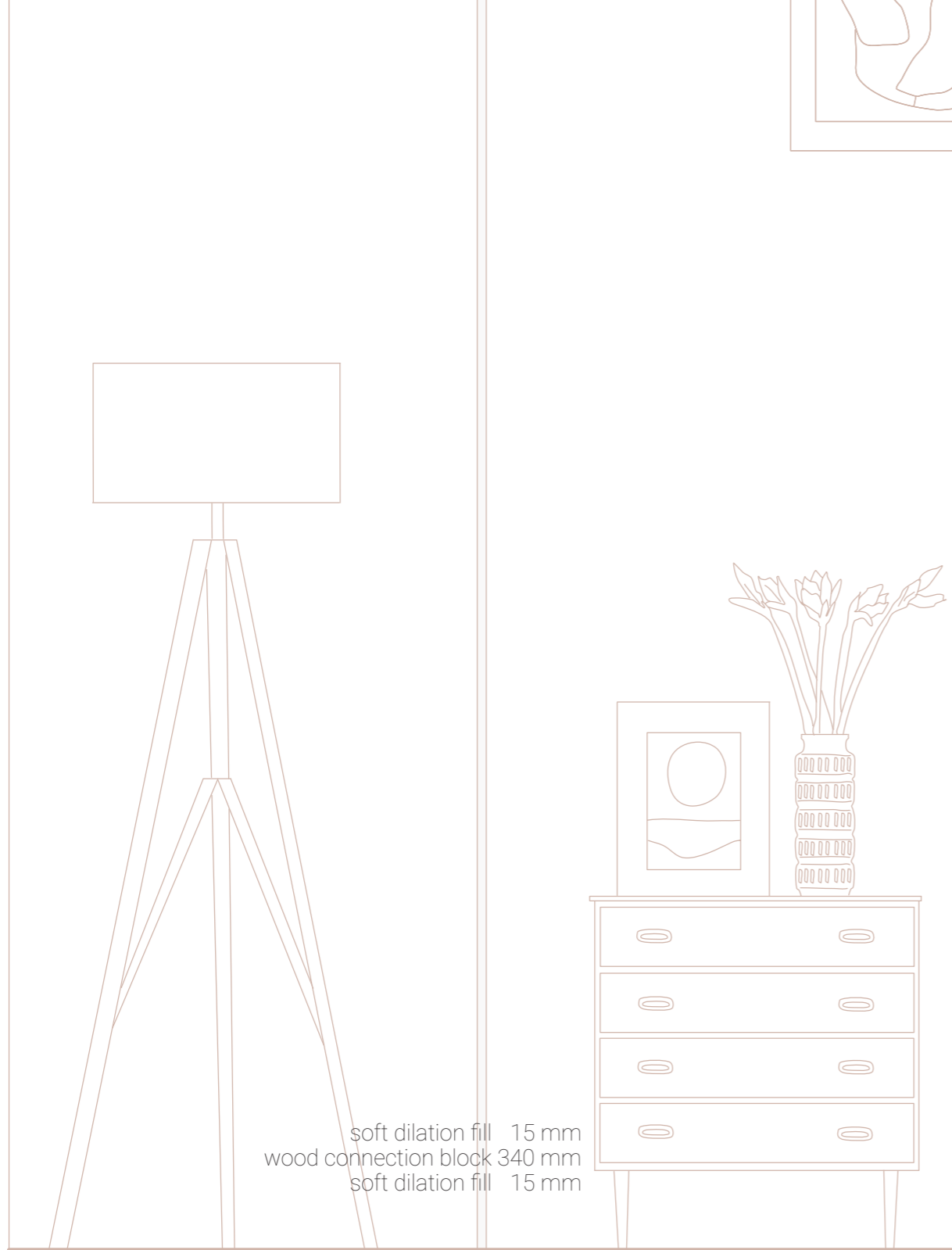


PROJECT
Green Balcony Nijmegen
design renew 62B

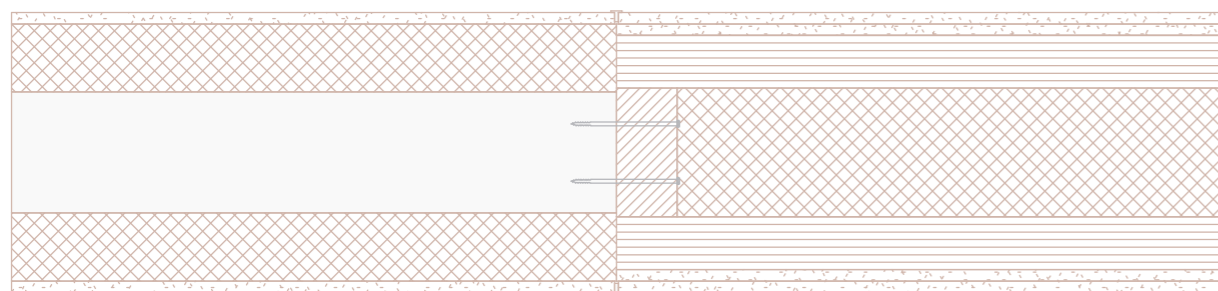
DRAWING
facade fragment southside

SCALE
1 : 20





soft dilation fill 15 mm
 wood connection block 340 mm
 soft dilation fill 15 mm

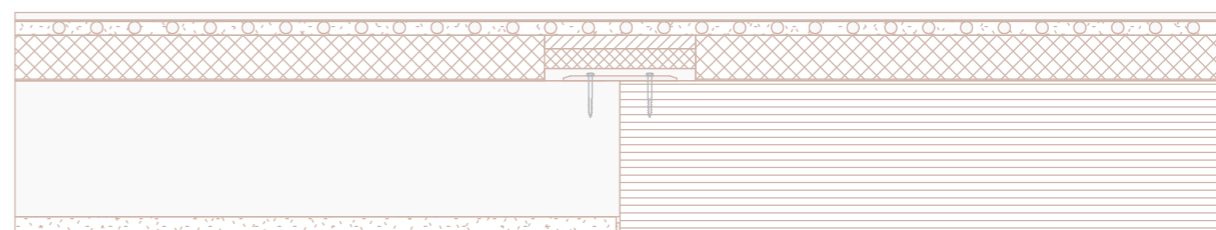


gypsum 15 mm	15 mm gypsum (2x)
hemp fibre 90 mm	70 mm cilt panel
concrete 160 mm	170 mm hemp fibre
hemp fibre 90 mm	70 mm cilt panel
gypsum 15 mm	15 mm gypsum (2x)

total 370 mm 370 mm total



extra support 18 mm
 triplex panel
 fermacell leveling 30 mm
 felt layer 12 mm
 steel dowel 10 mm



wooden floor 10 mm	10 mm wooden floor
fermacell castellated panel (floor heating) 20 mm	20 mm fermacell castellated panel (floor heating)
fermacell leveling 60 mm	60 mm fermacell leveling
concrete 180 mm	200 mm cilt panel
gypsum 20 mm	

total 290 mm 290 mm total

PROJECT
 Green Balcony Nijmegen
 design renew 62B

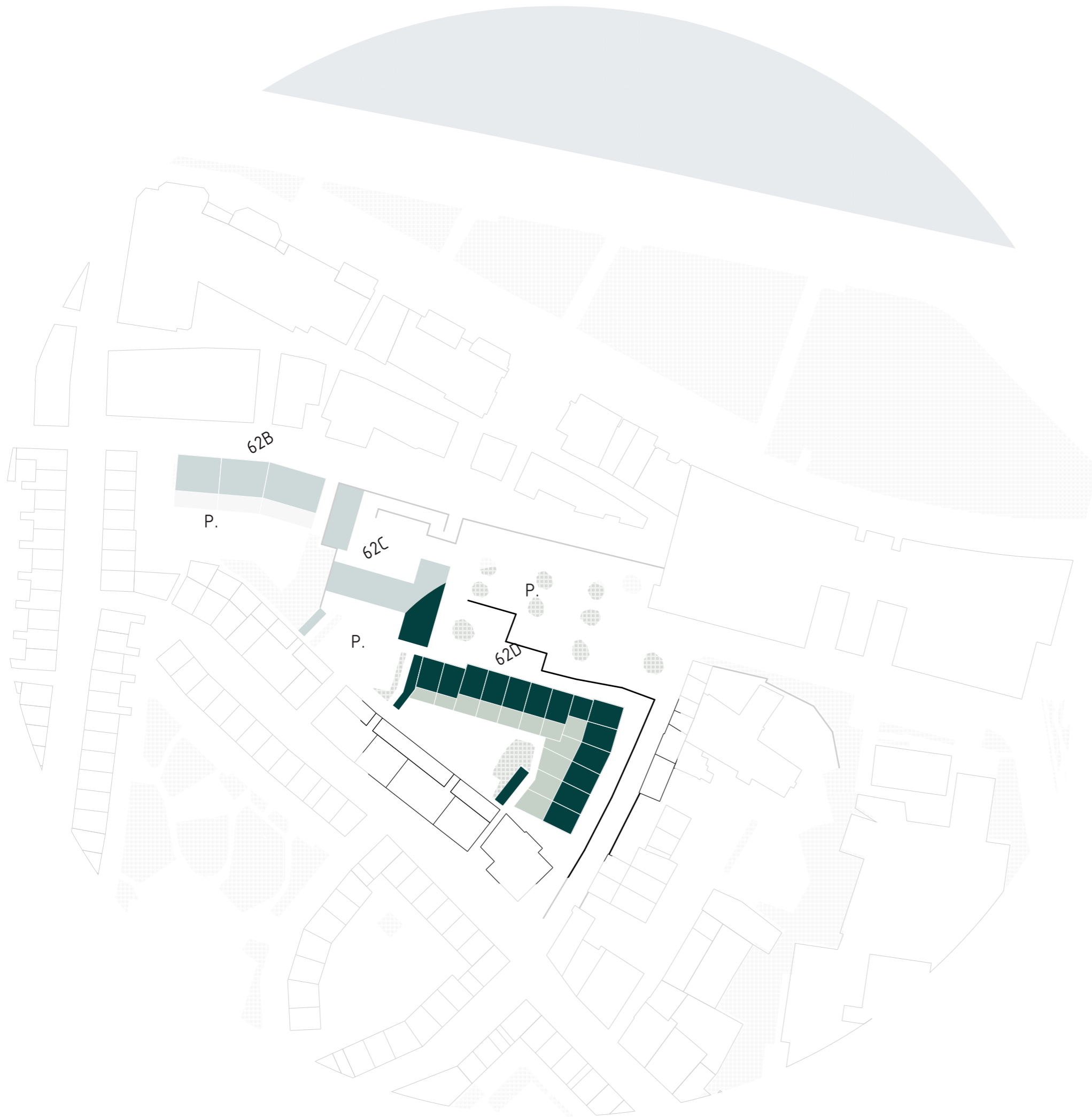
DRAWING
 interior detail
 old meets new element

SCALE
 1 : 10



Imkeliene Boersma __ 5114721

RENEW DESIGN 62D

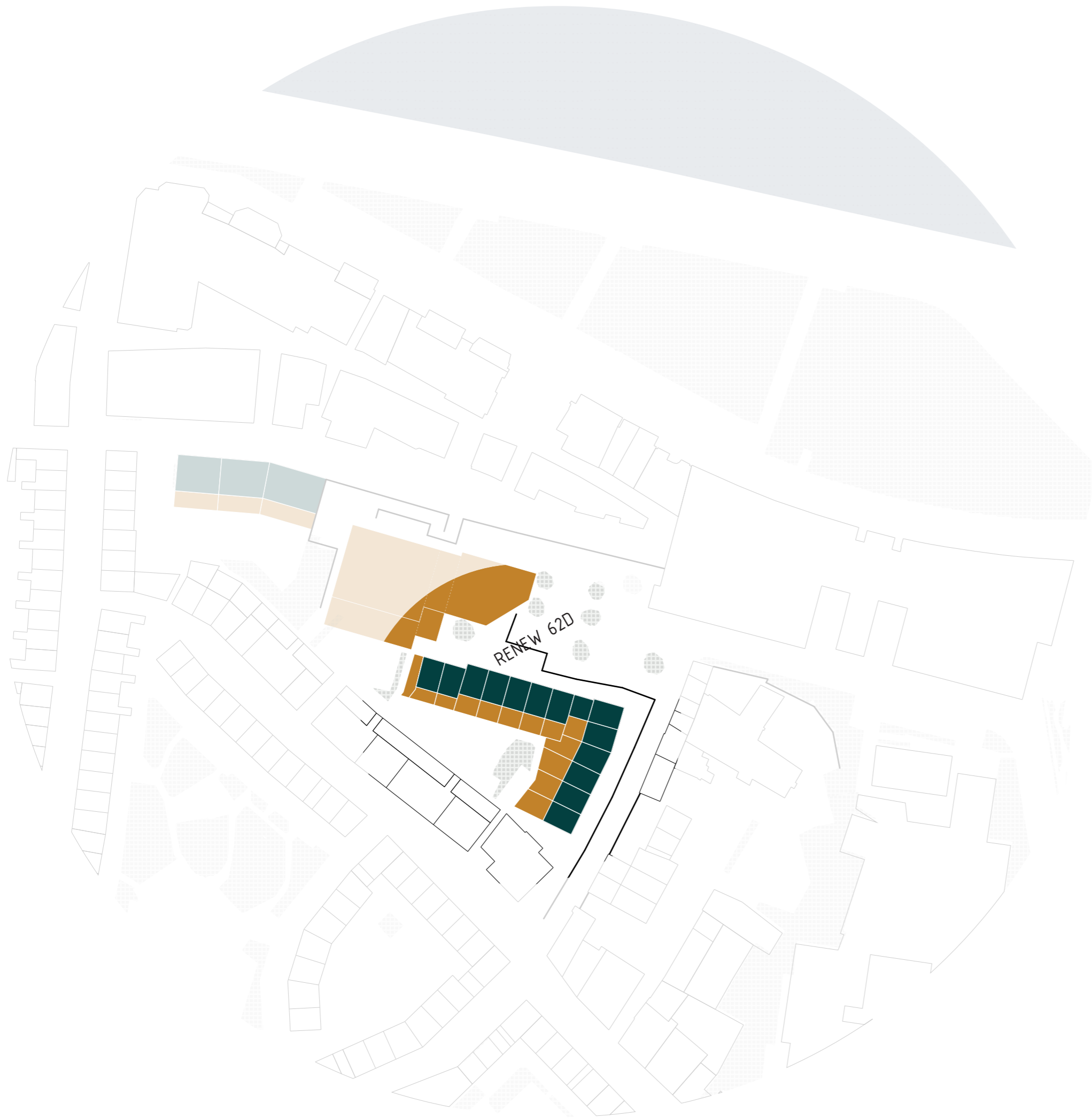


PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
plan situation existing

SCALE
1 : 1 000



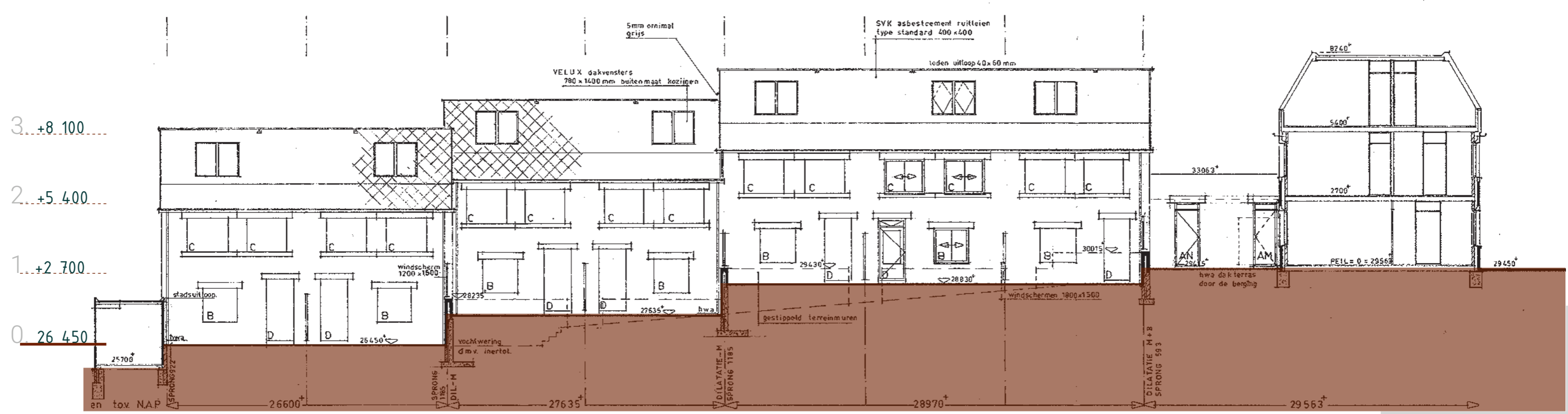
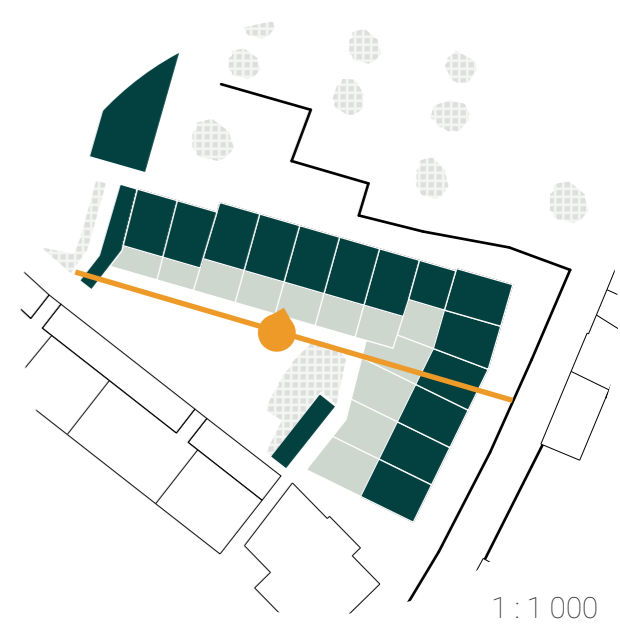


PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
plan situation new

SCALE
1 : 1 000



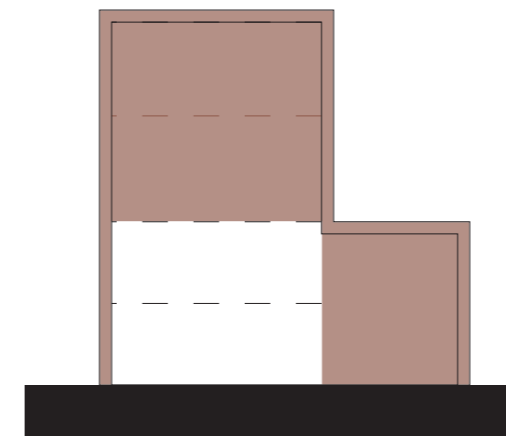
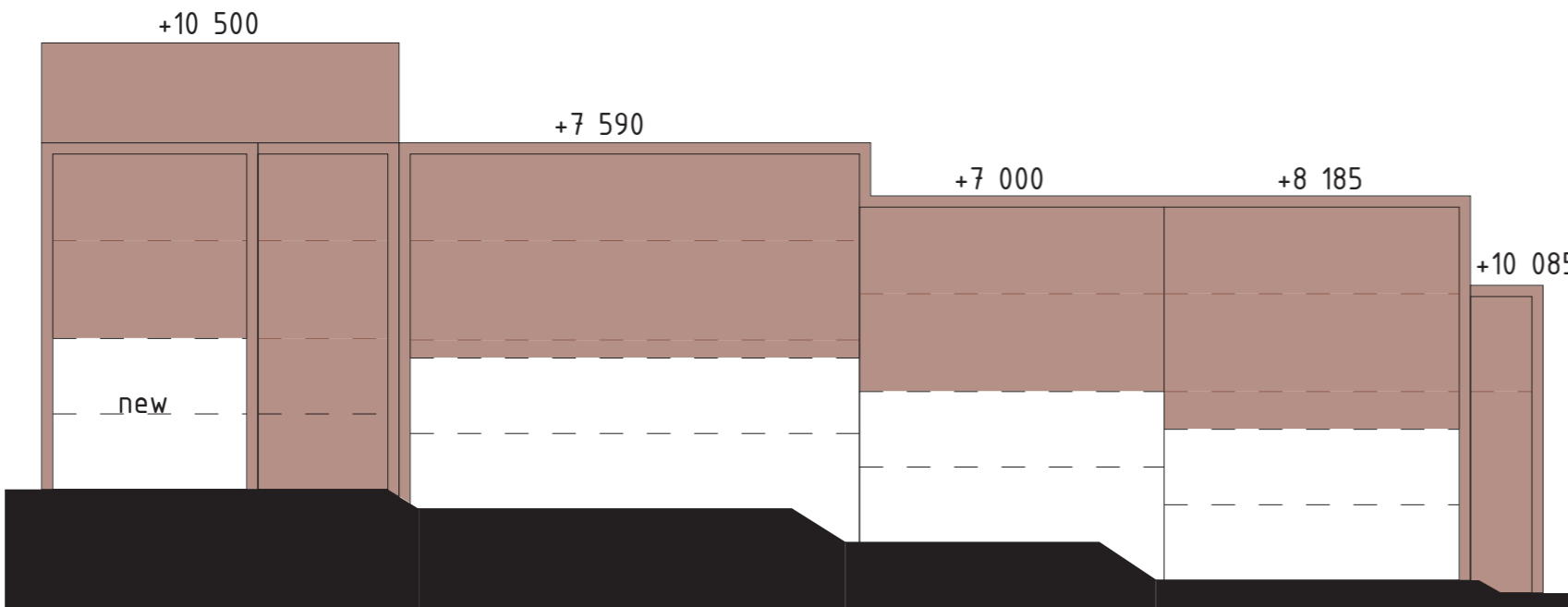
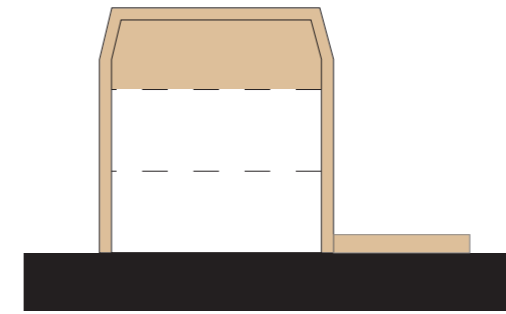
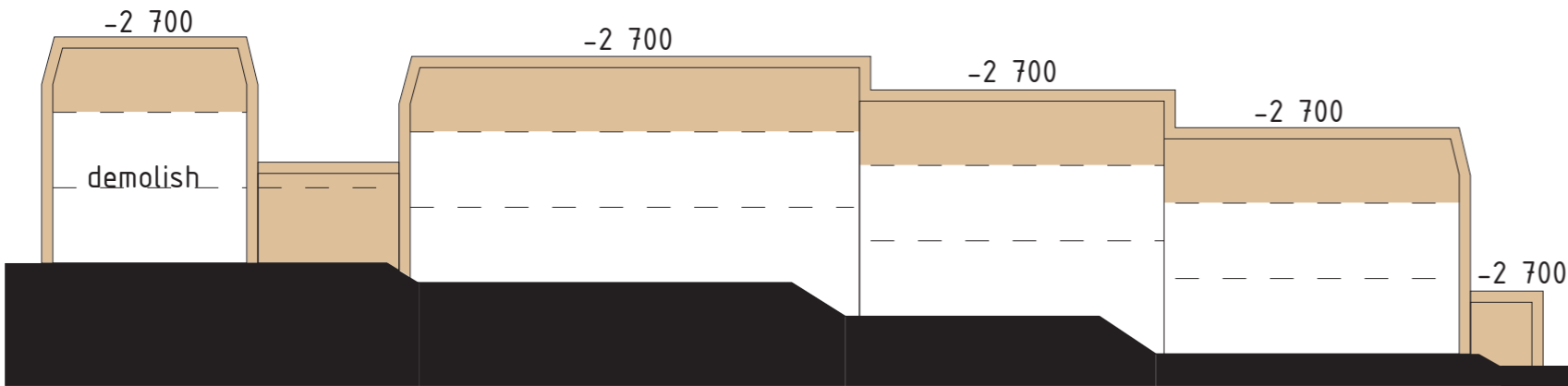
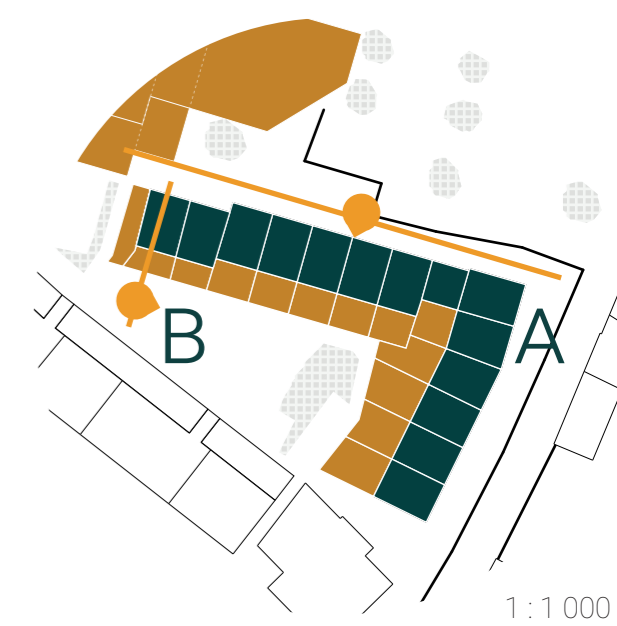
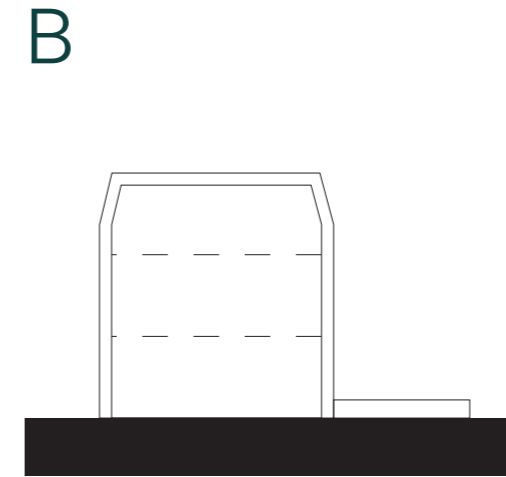
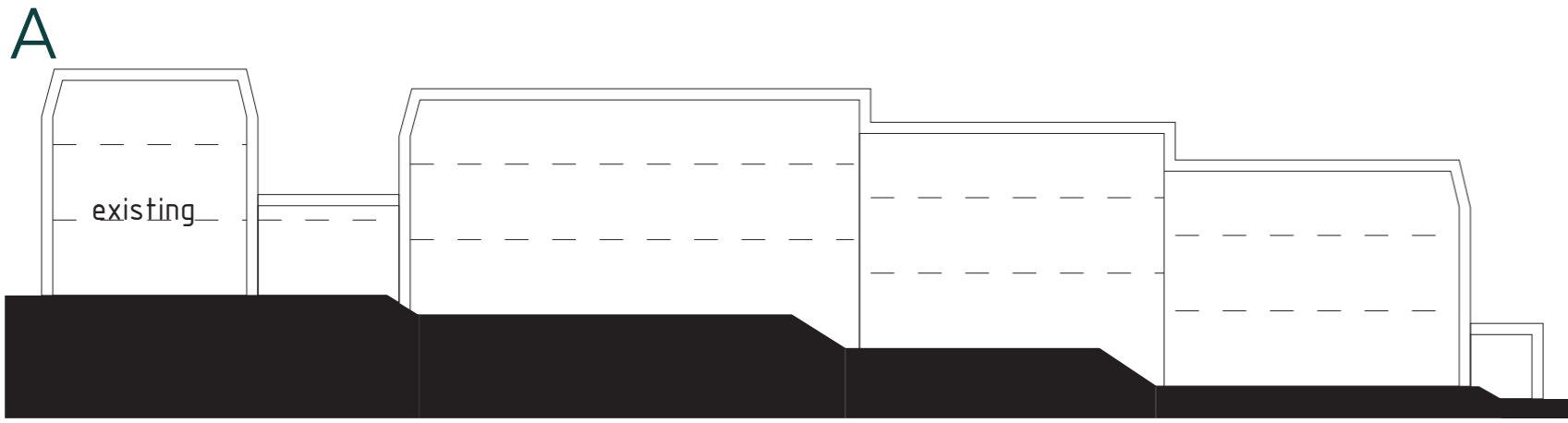


Imkeleene Boersma _ 5114721

PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
facade south existing

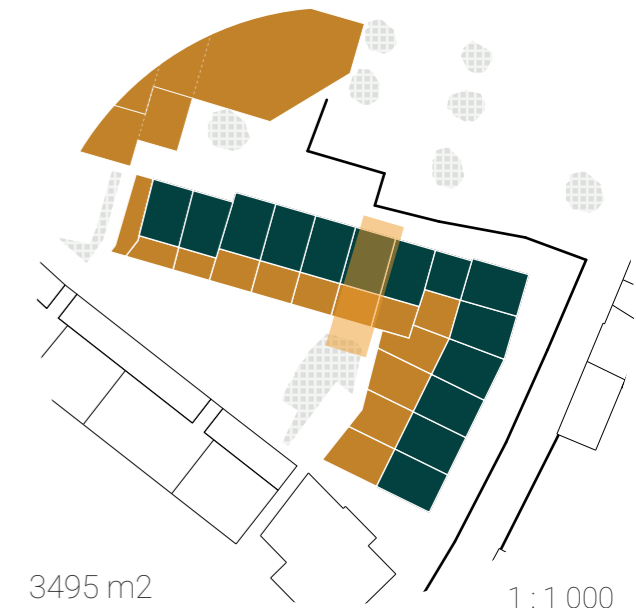
SCALE
1:150



old / new

orientation
street / courtyard

shared space
parking / balcony & courtyard



62D OLD

1 745 m2

typologies

dwelling
storage
parking

dwelling amount

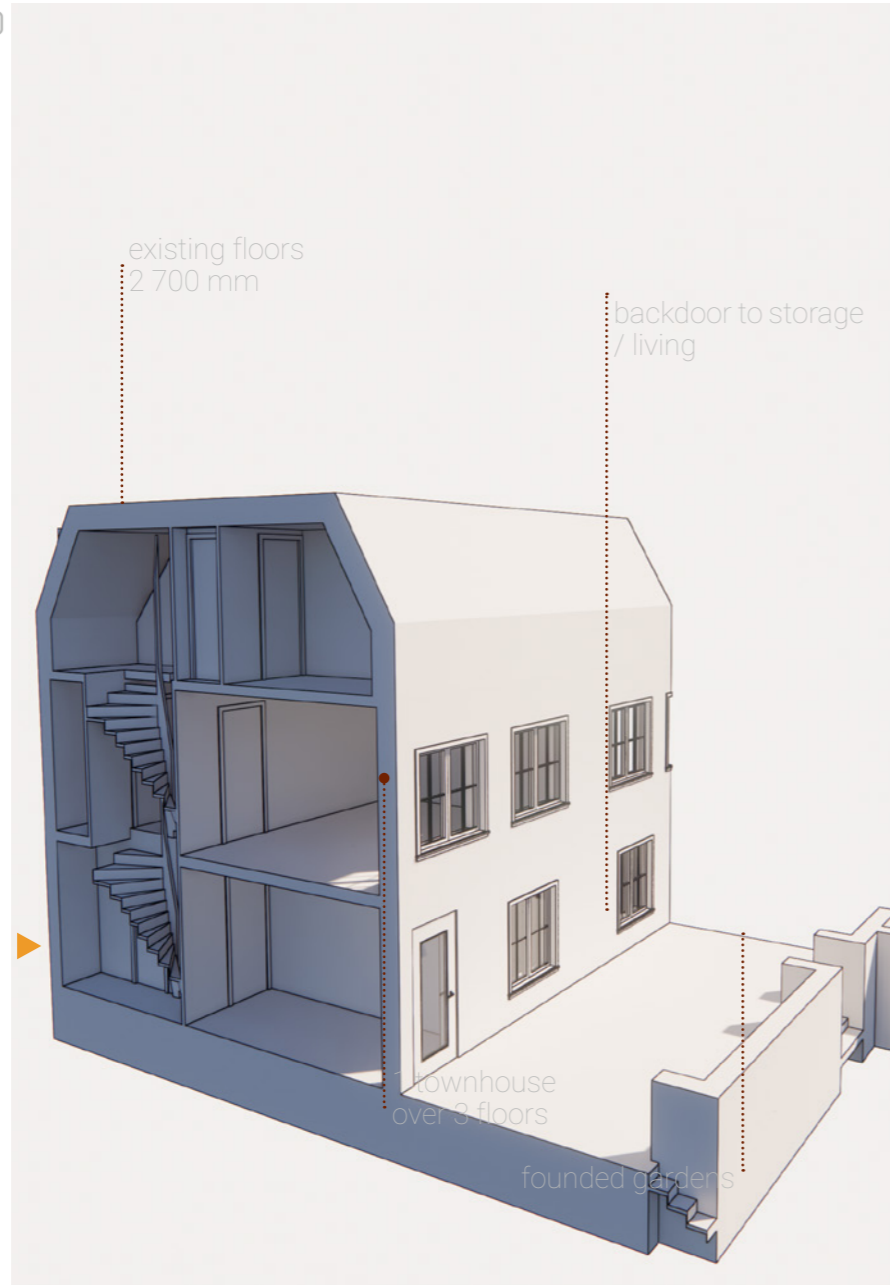
13 townhouses

13 with 3 floors

08 with 3 bedrooms
05 with 4 bedrooms

residents

13 - 57 people



62D NEW

3495 m2

typologies

dwelling
storage
shared balcony
public space

dwelling amount

24 townhouses

24 with 2 floors

13 with 2 bedrooms
11 with 3 bedrooms

residents

24 - 83 people

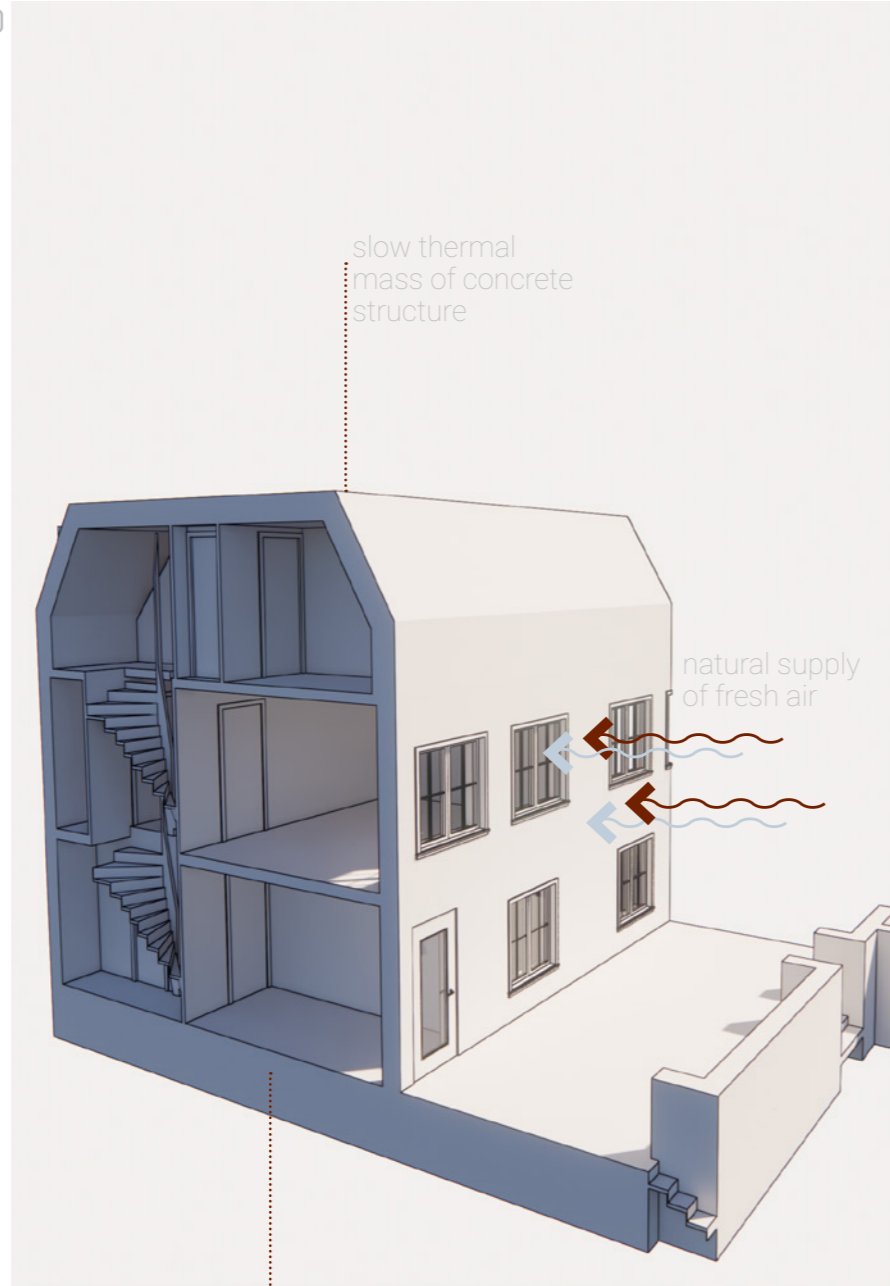


PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
section fragment typology
concept existing / new

SCALE
perspective

62D OLD



central heating unit (gas)

slow thermal mass of concrete structure

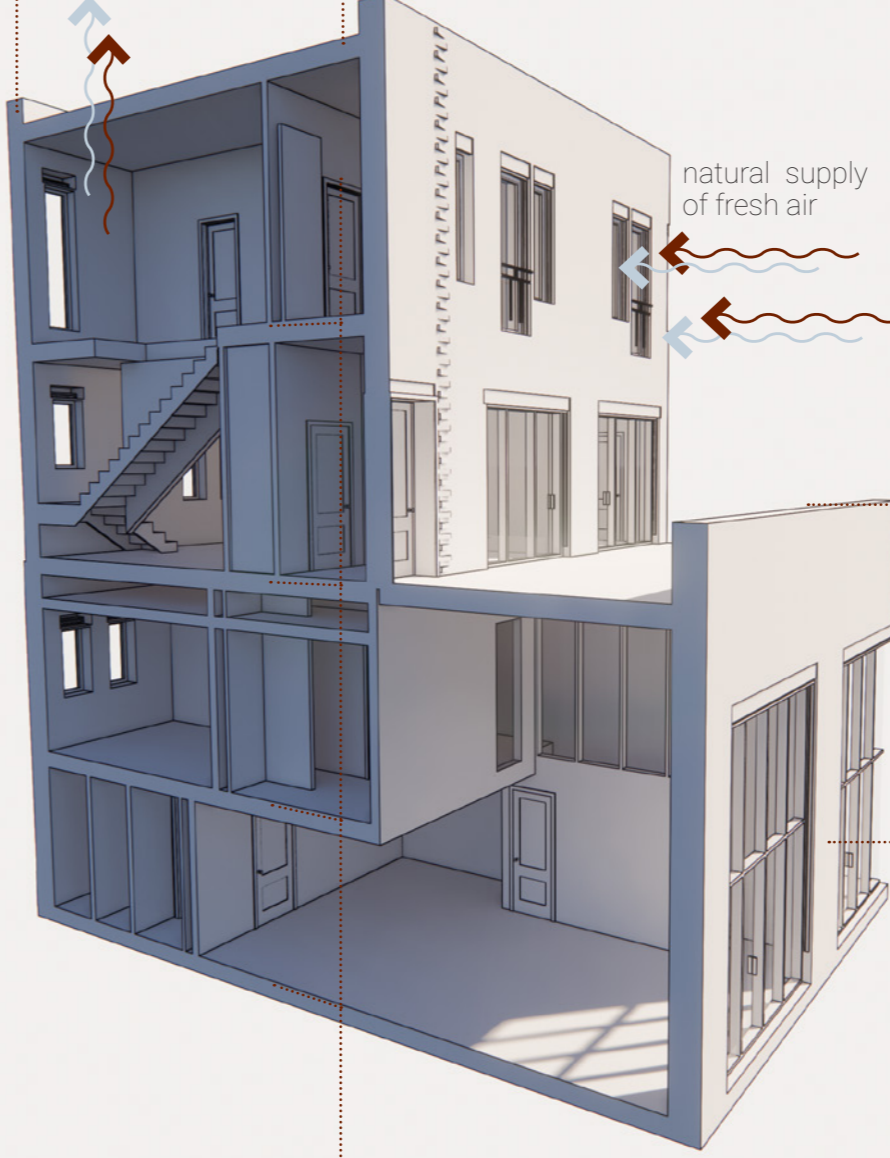
natural supply of fresh air

add insulation new facade



solar panels on unused roof

mechanical suction of used air



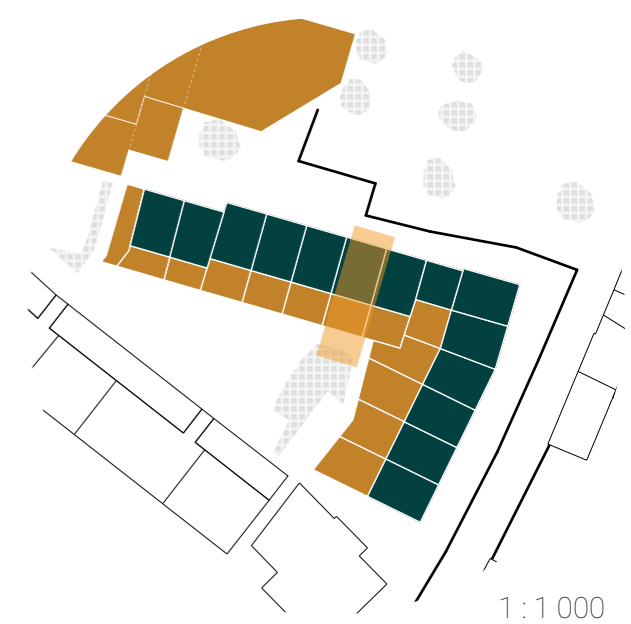
62D NEW

slow thermal mass concrete structure combined with fast thermal characteristics wooden structure

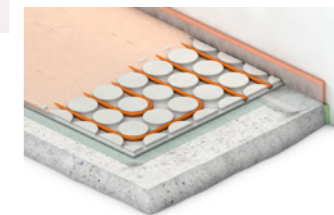
external sun protection:
- DucoTwin 120 system
- light colored brickwork
- urban cooling: greenery shading, green roofs, surrounding soil

floor heating / cooling

city heating program using aqua thermo



1:1000



PROJECT

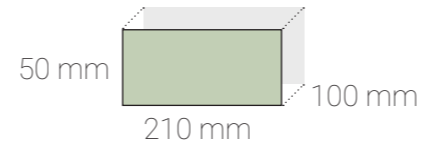
Green Balcony Nijmegen
design renew 62D

DRAWING

section fragment climate
concept existing / new

SCALE

perspective

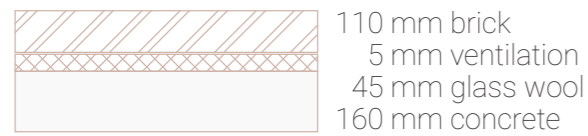


- > made from at least 60% waste
- > CO₂ compensated production
- > 91 kg waste / m² upcycled
- > compliant with industry standards
- > available in custom shapes and sizes
- > suitable for walls and flooring
- > suitable for interiors and exteriors
- > the future of circular construction!



62D OLD

facade



110 mm brick
5 mm ventilation
45 mm glass wool
160 mm concrete

320 mm total (Rc 1,61 m²K/W)

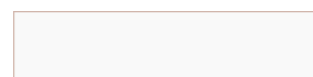
interior walls



20 mm gypsum
160 mm concrete
20 mm gypsum

200 mm total

floors

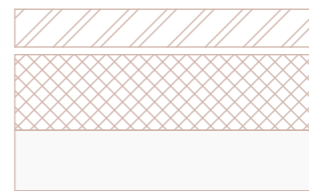


unknown
180 mm concrete

180-200 mm total

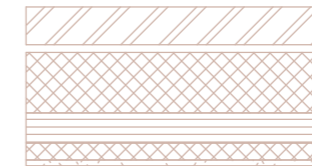
62D NEW

facade



100 mm brick
20 mm ventilation
200 mm hemp fibre
160 mm concrete

480 mm total (Rc 5,38 m²K/W)



100 mm brick
20 mm ventilation
160 mm hemp fibre
80 mm clt panel
45 mm hemp fibre
15 mm gypsum

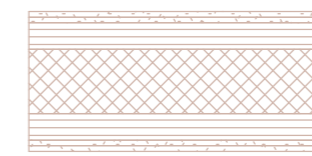
420 mm total

interior walls



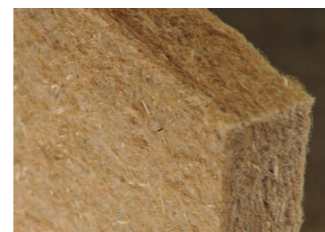
15 mm gypsum
90 mm hemp fibre
160 mm concrete
90 mm hemp fibre
15 mm gypsum

370 mm total



15 mm gypsum (2x)
70 mm clt panel
170 mm hemp fibre
70 mm clt panel
15 mm gypsum (2x)

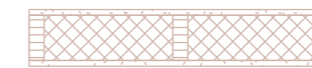
370 mm total



biofib
chanvre

THERMAL INSULATION
100% HEMP

Thermal: ●●●● Acoustic: ●●●●
Phase displacement: ●●●● Hygrothermic: ●●●●



15 mm gypsum
80 mm hemp fibre OR
120 mm hemp fibre
15 mm gypsum

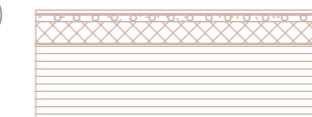
110 / 150 mm total

floors



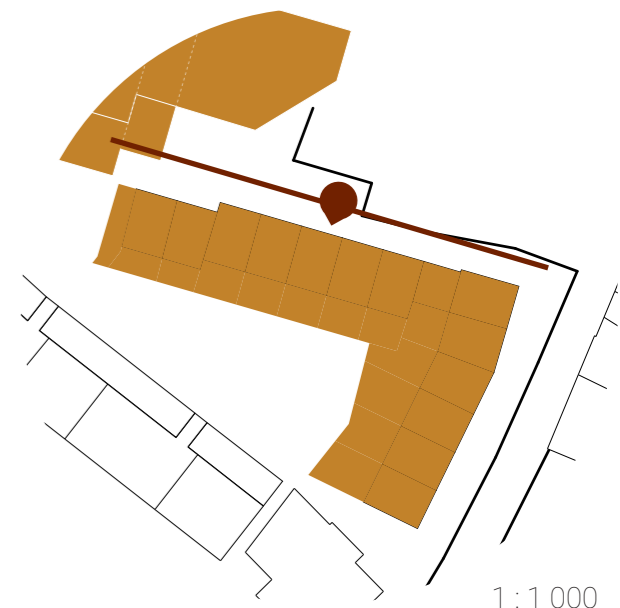
10 mm wooden floor
20 mm fermacell castellated panel (floor heating)
60 mm fermacell leveling
180 mm concrete
20 mm gypsum

290 mm total



10 mm wooden floor
20 mm fermacell castellated panel (floor heating)
60 mm fermacell leveling
200 mm clt panel

290 mm total

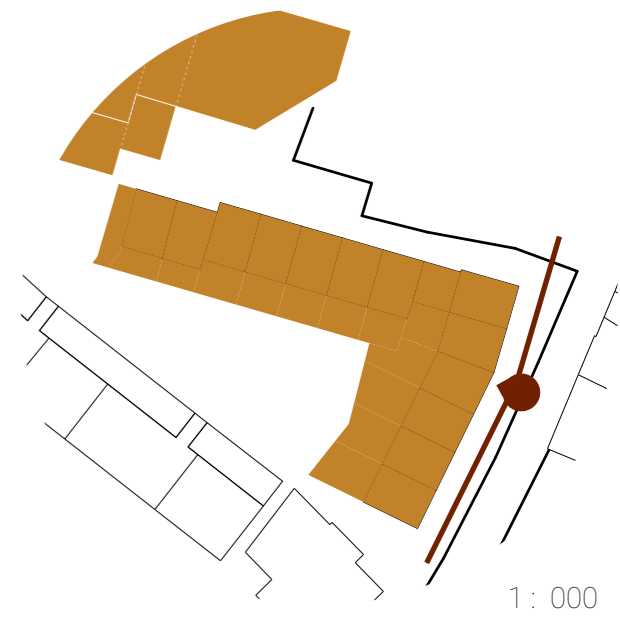


Imkeliene Boersma _ 5114721

PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
facade north new

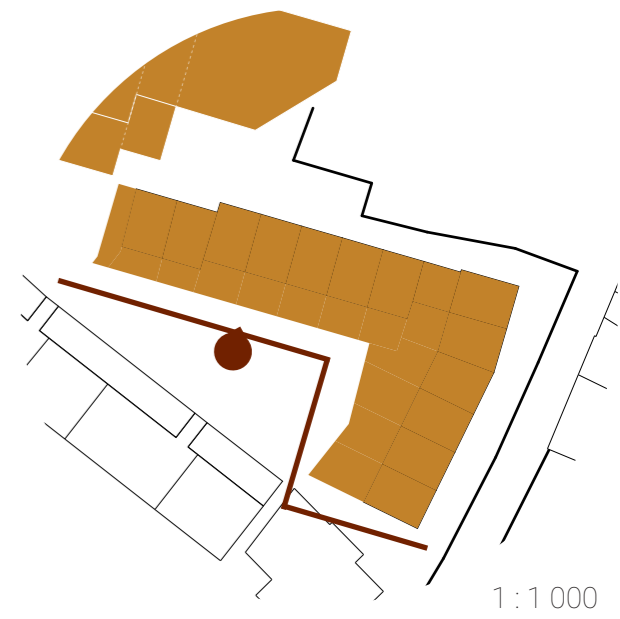
SCALE
1 : 150



PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
facade east new

SCALE
1:150

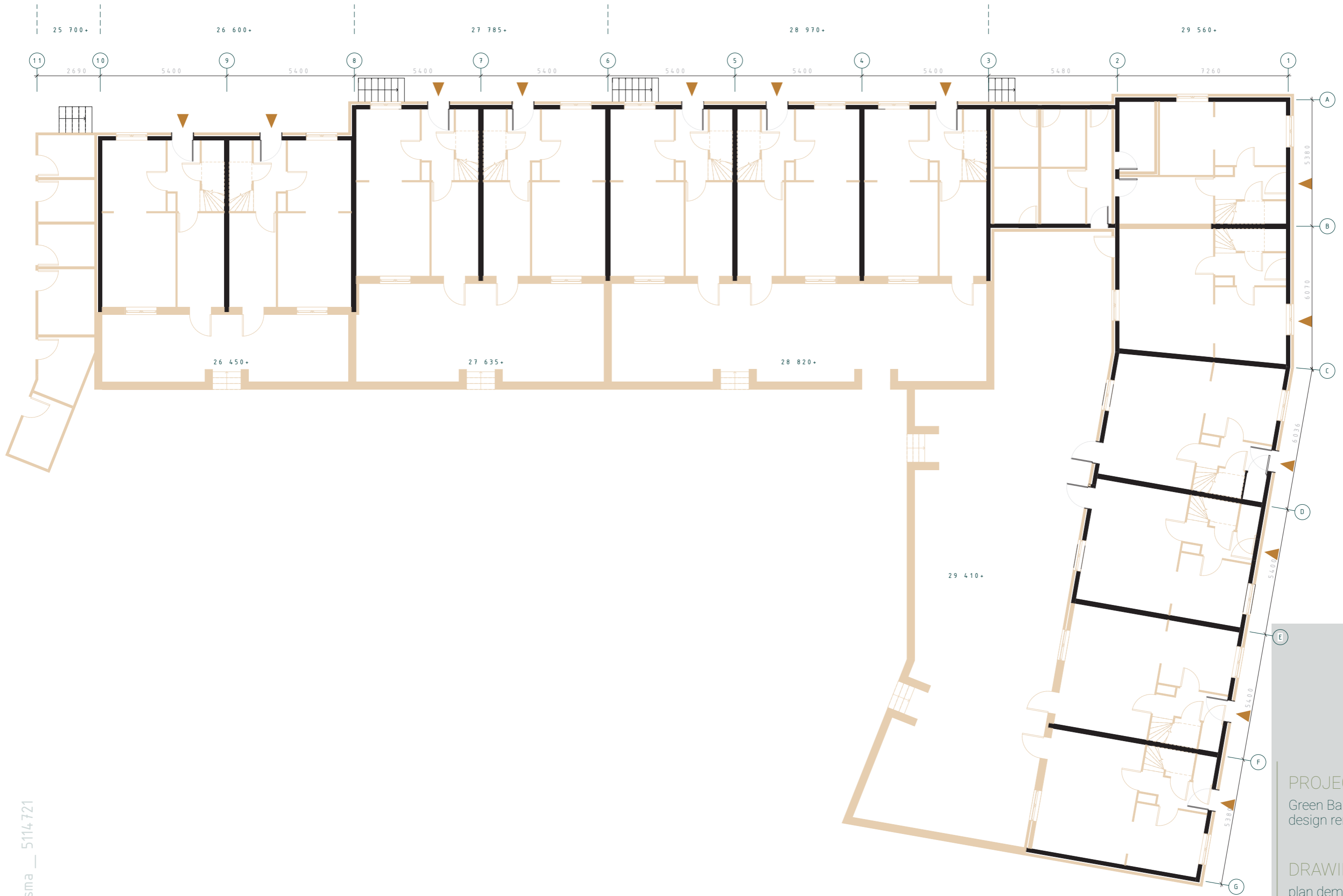


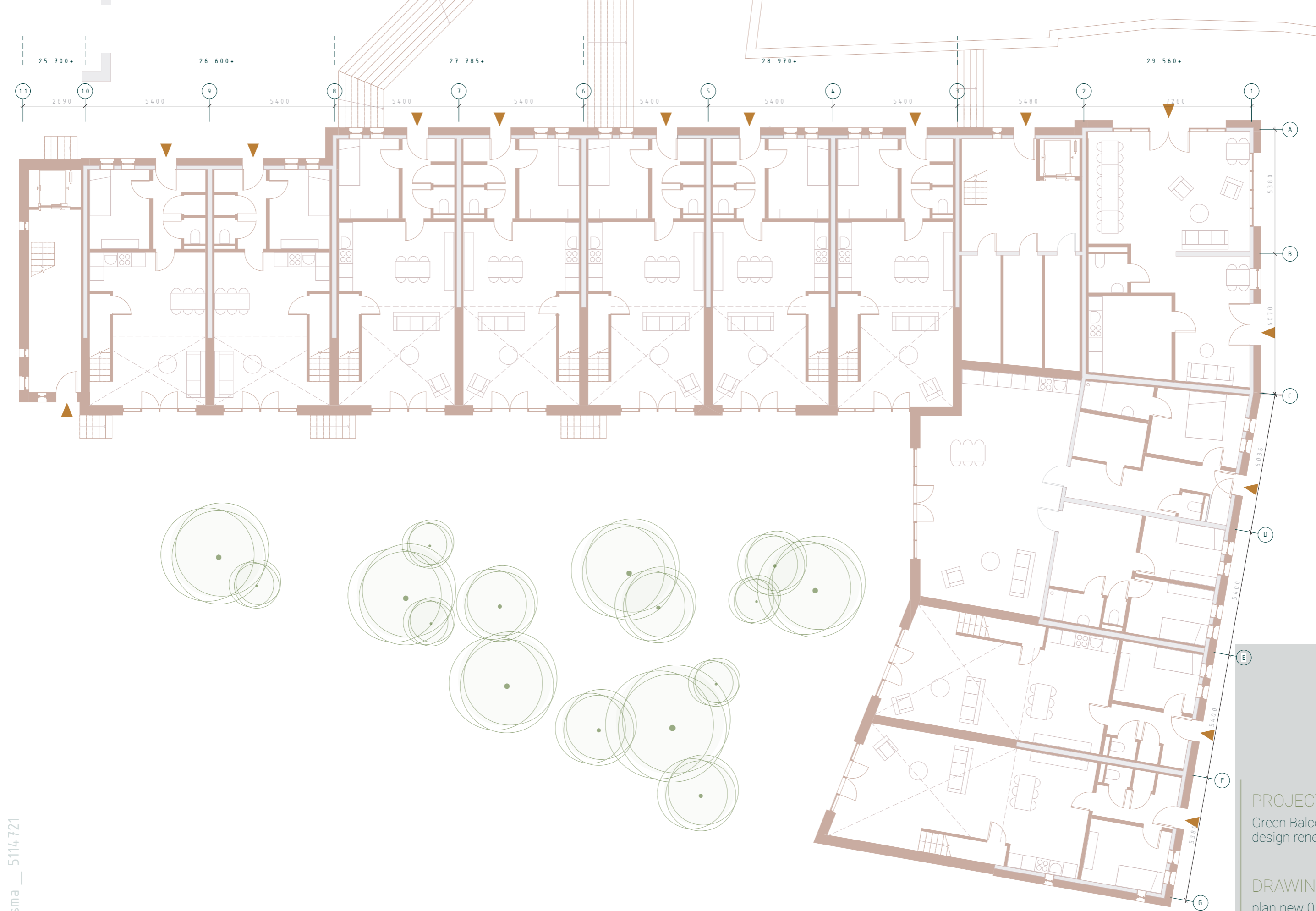
Imkeliene Boersma _ 5114721

PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
facade south new

SCALE
1:150



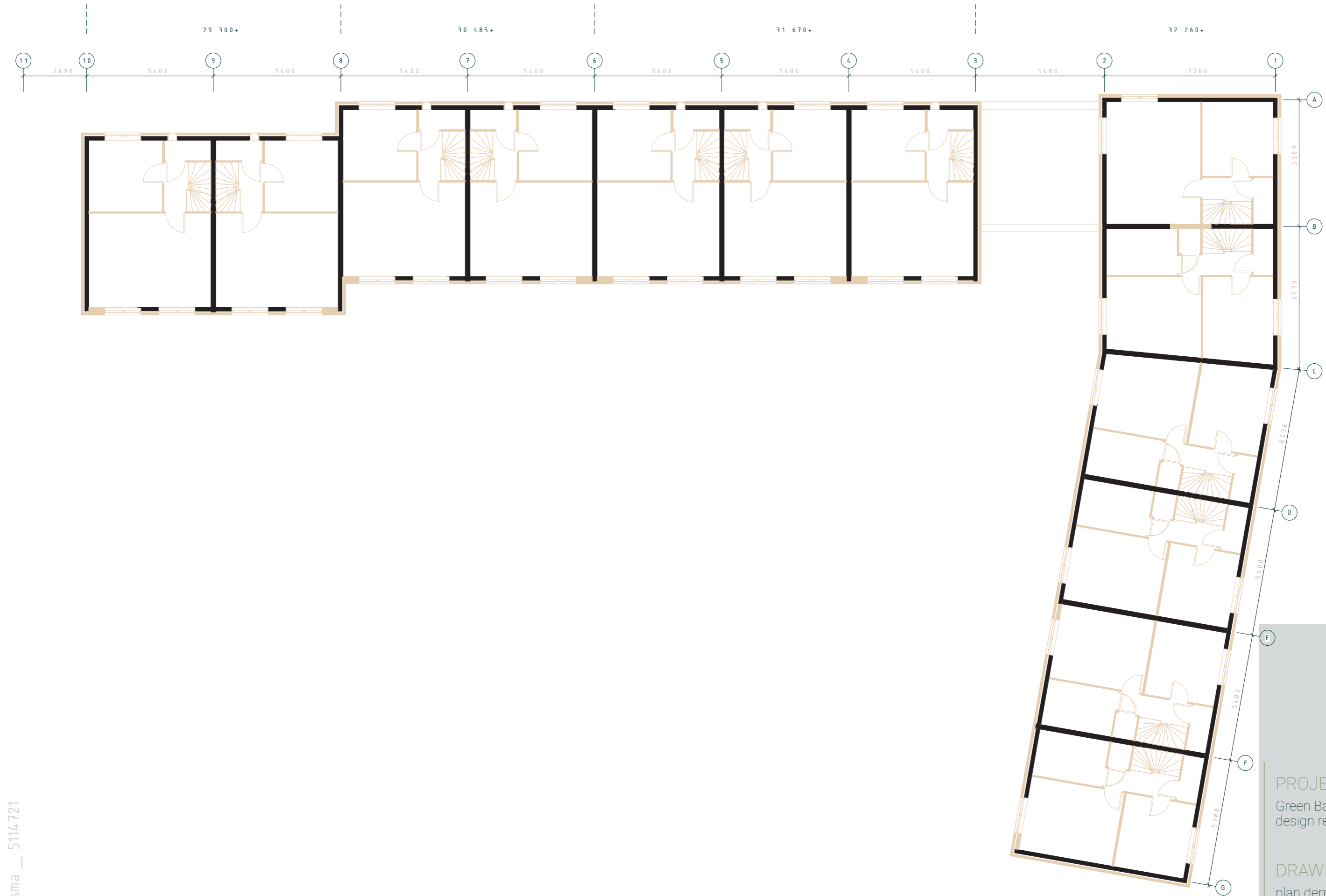


PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
plan new 0.

SCALE
1 : 150



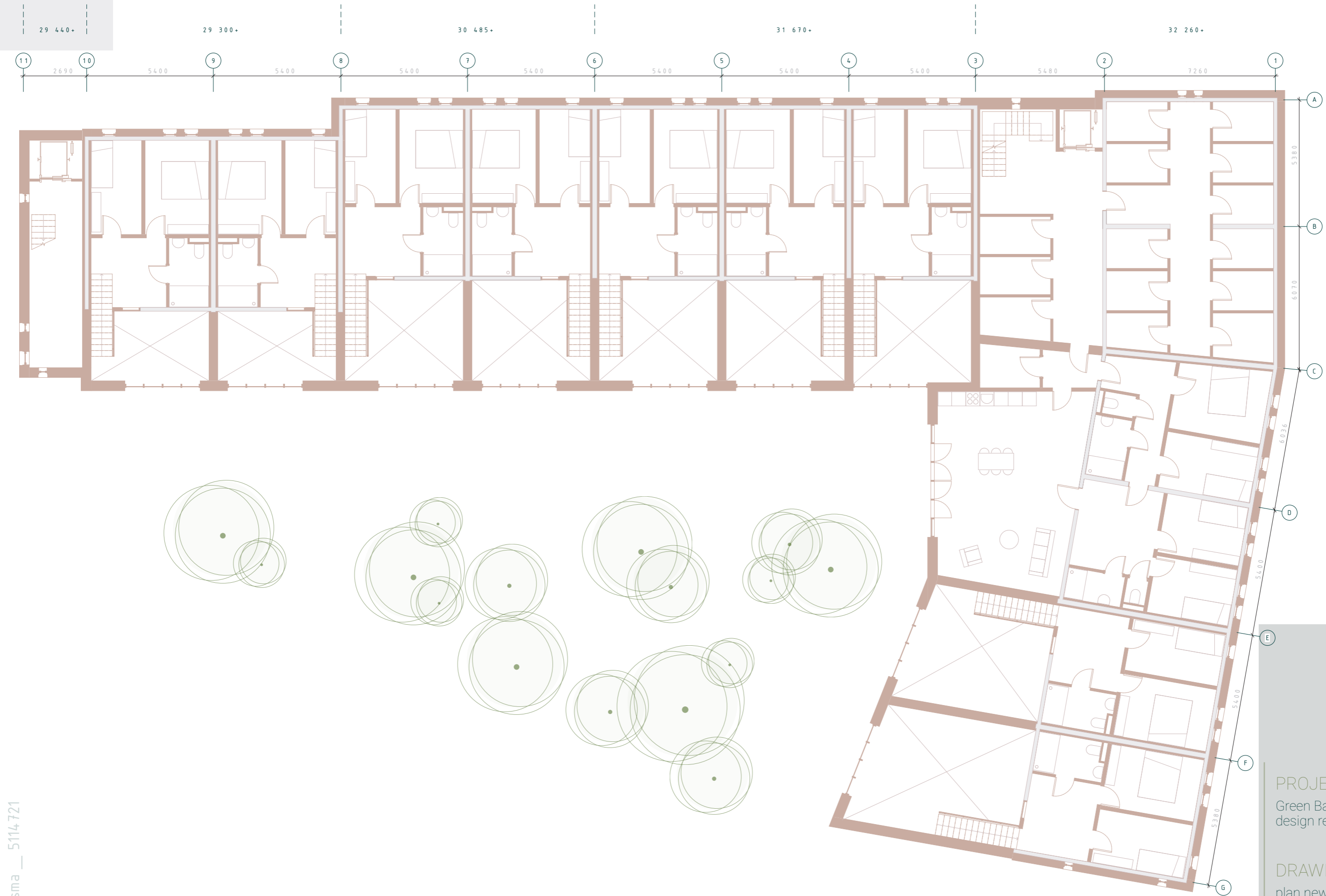


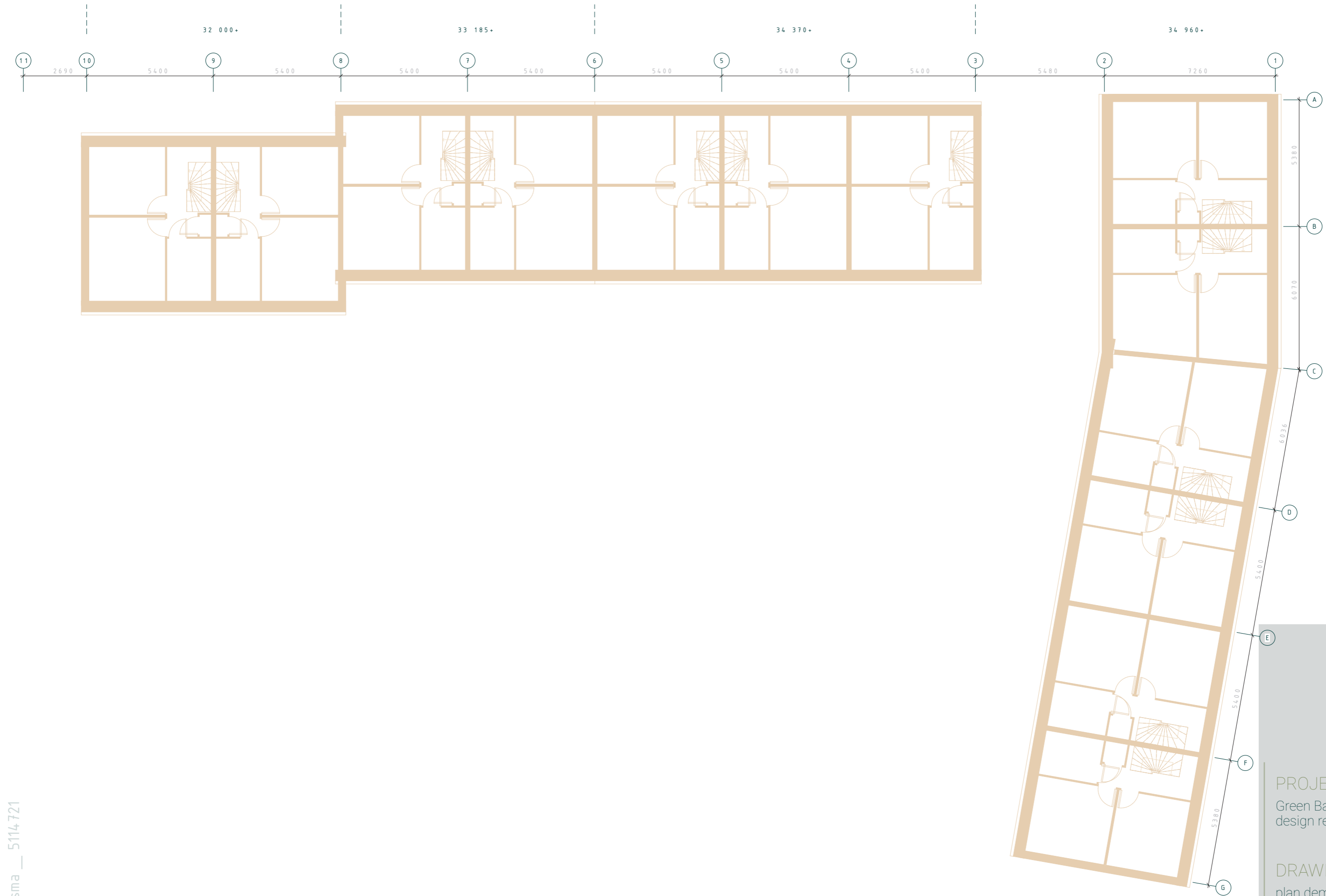
PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
plan demolish 1.

SCALE
1 : 150





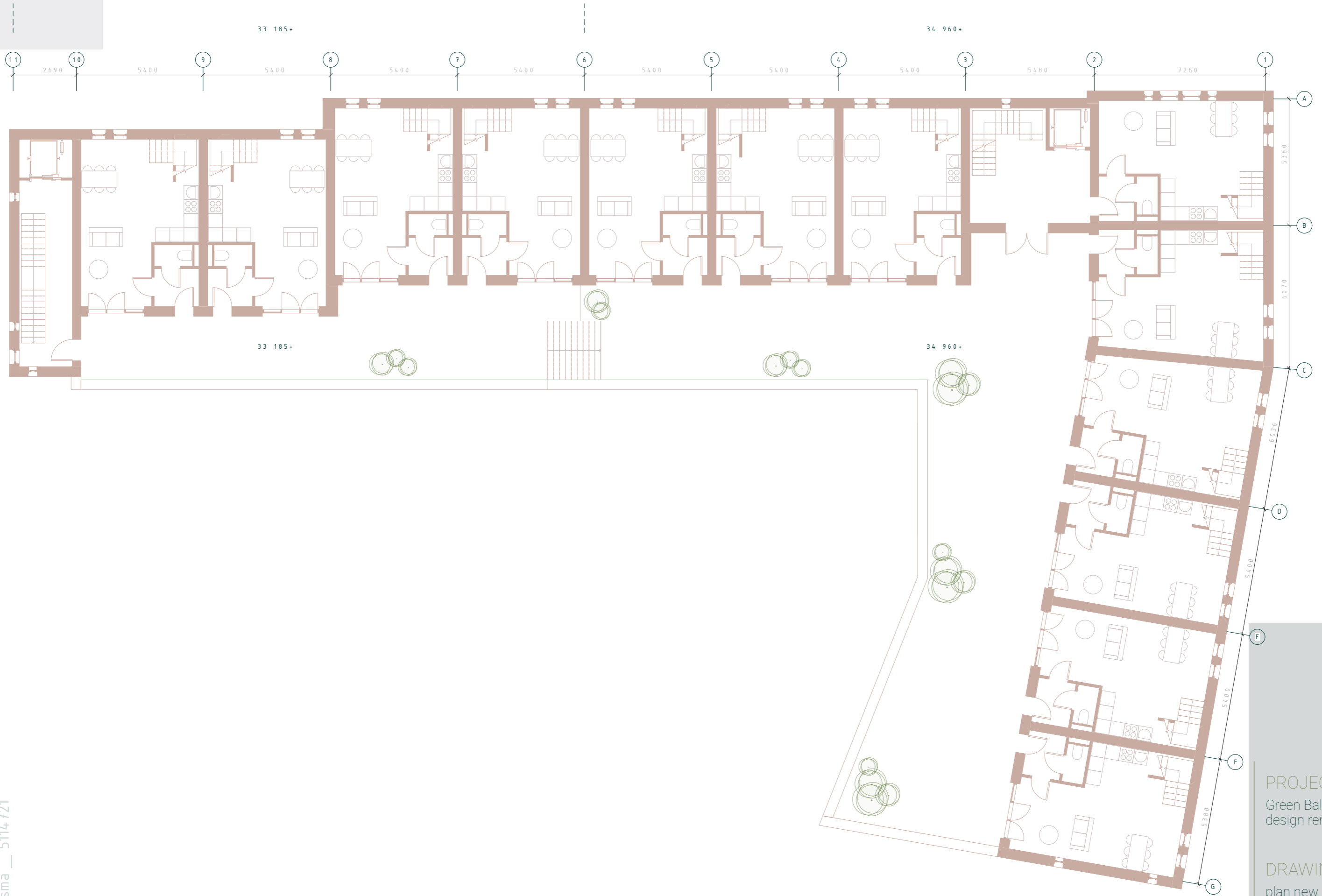


PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
plan demolish 2.

SCALE
1 : 150



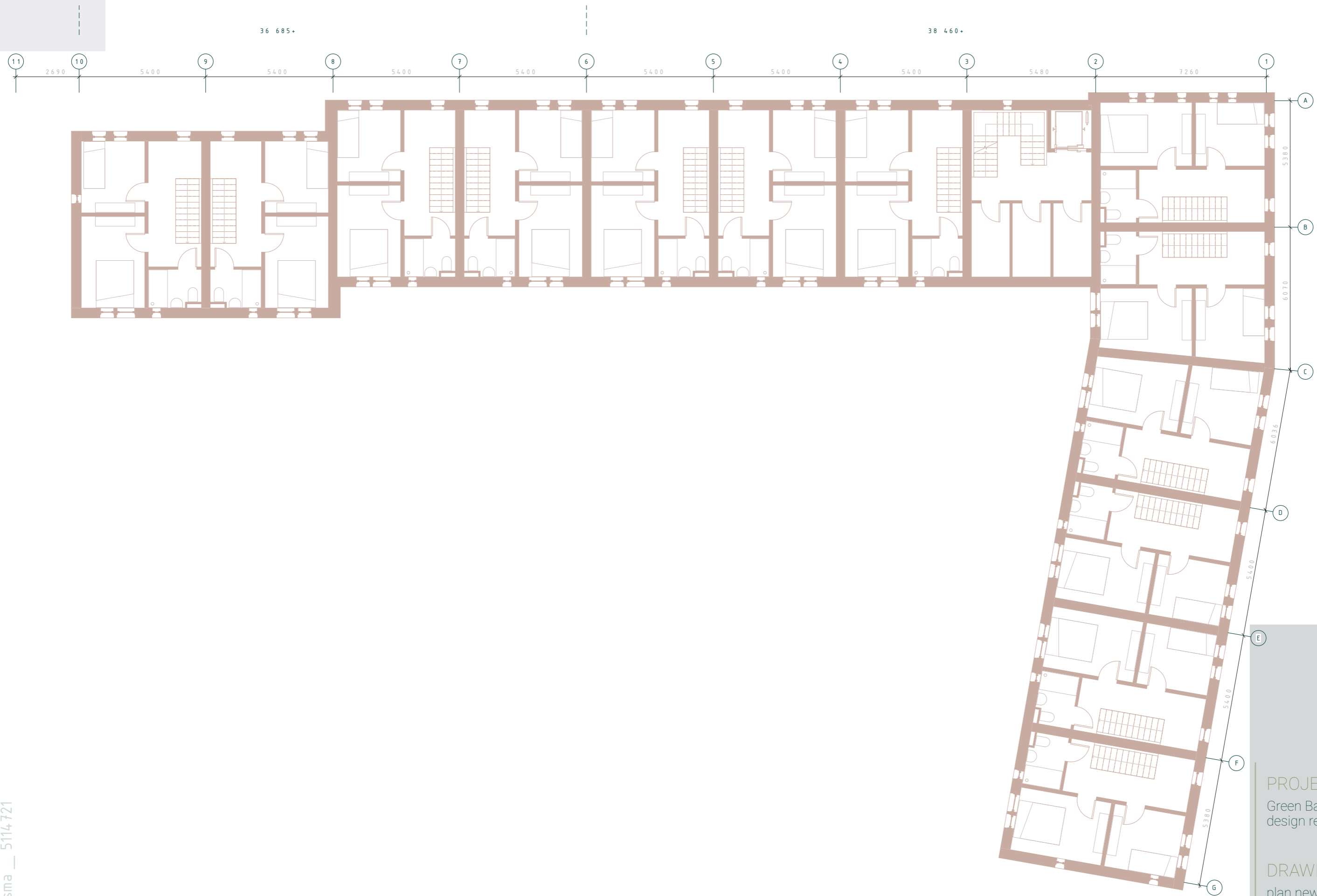


PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
plan new 2.

SCALE
1 : 150



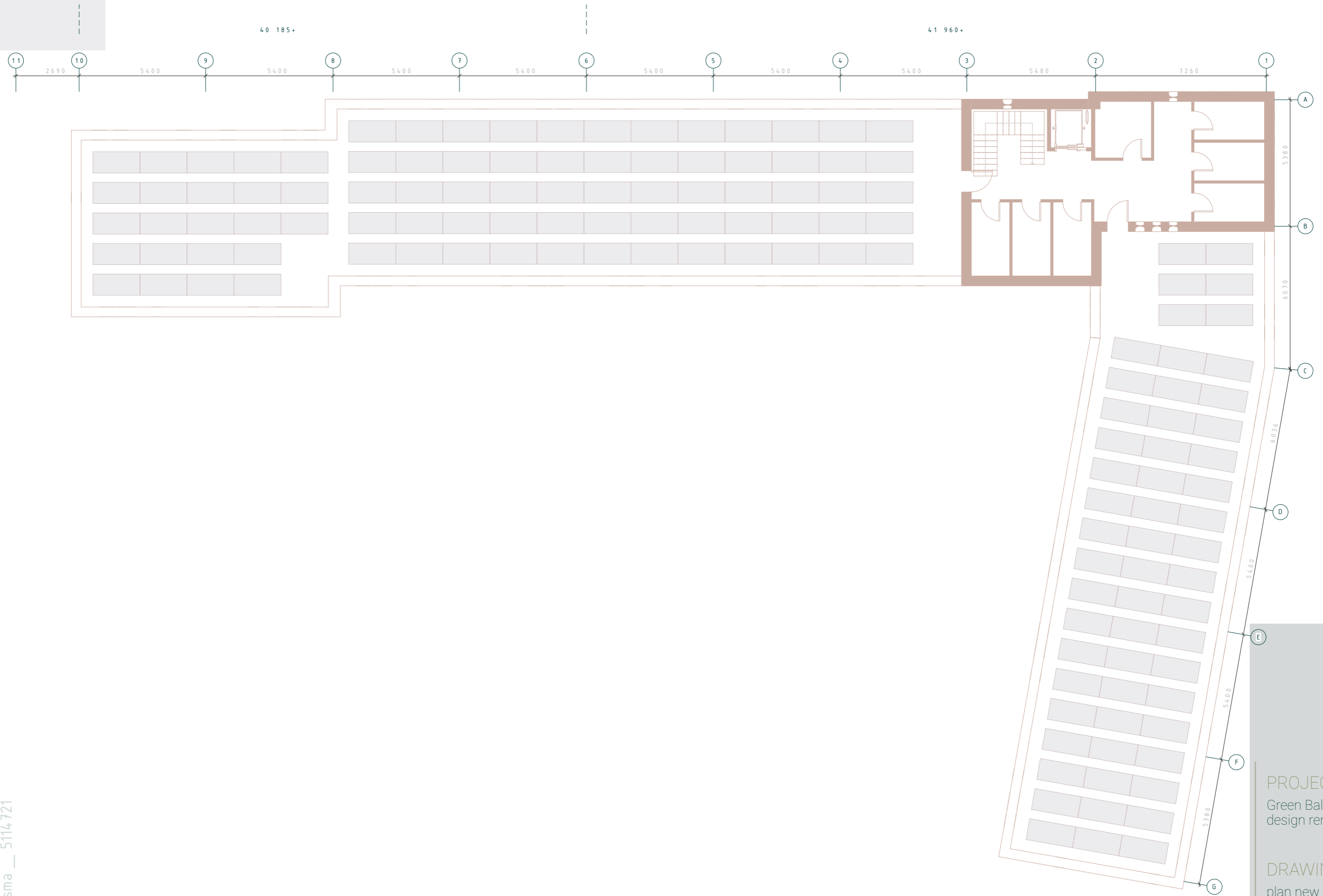


PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
plan new 3.

SCALE
1 : 150



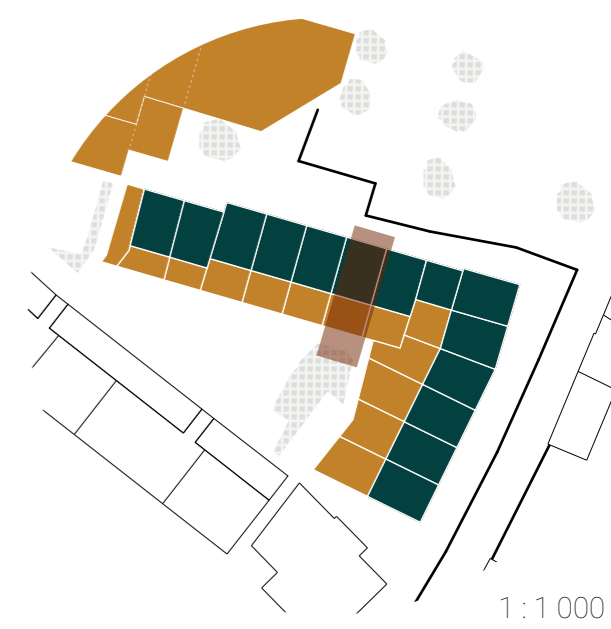
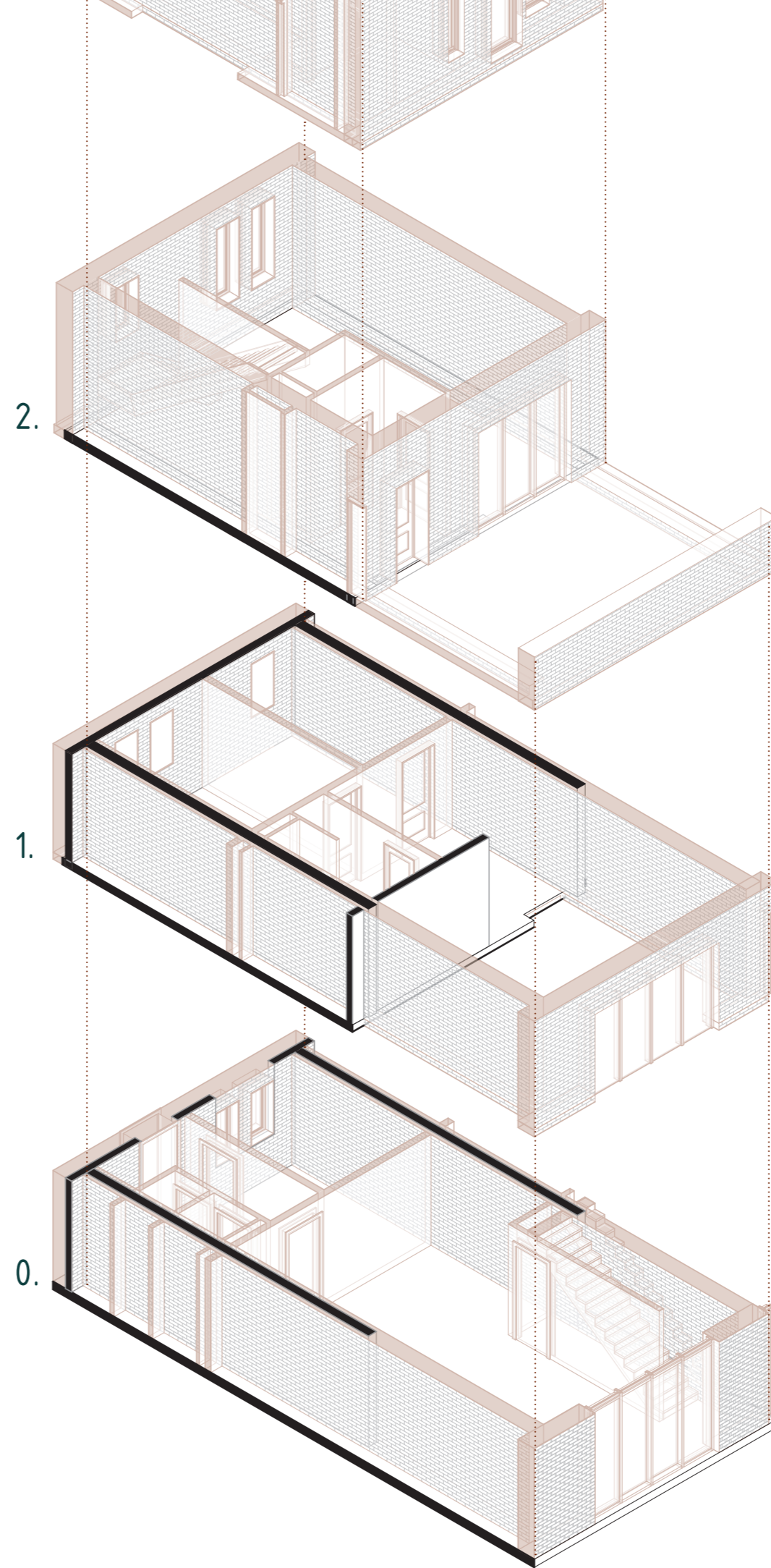
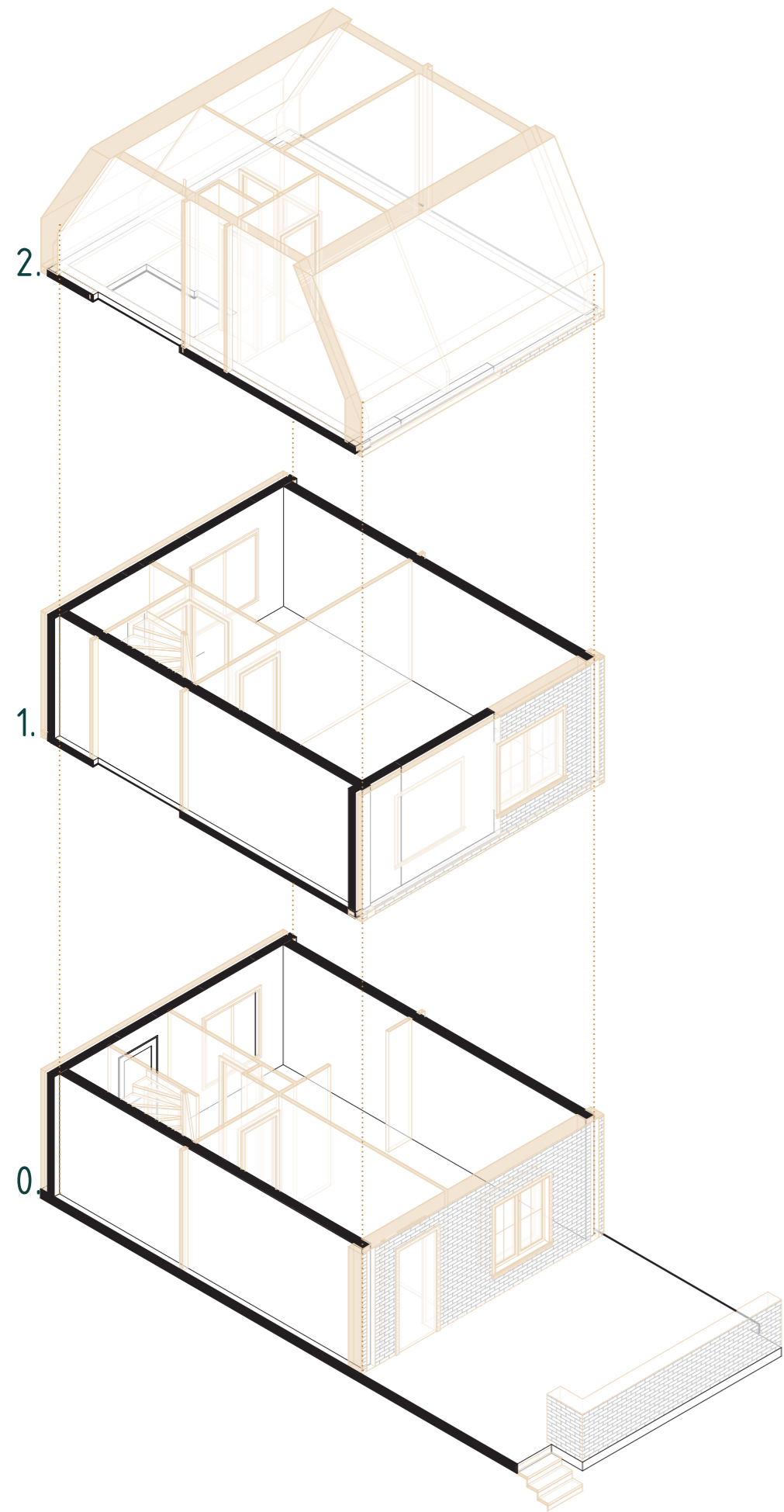


PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
plan new 4.

SCALE
1 : 150



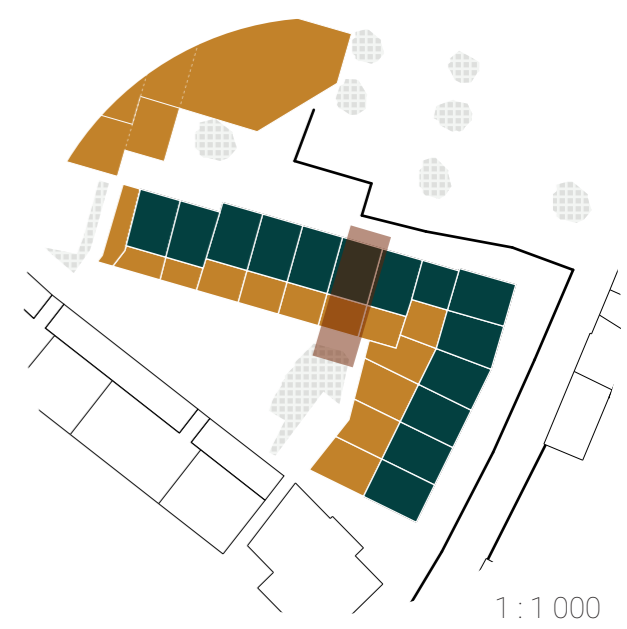
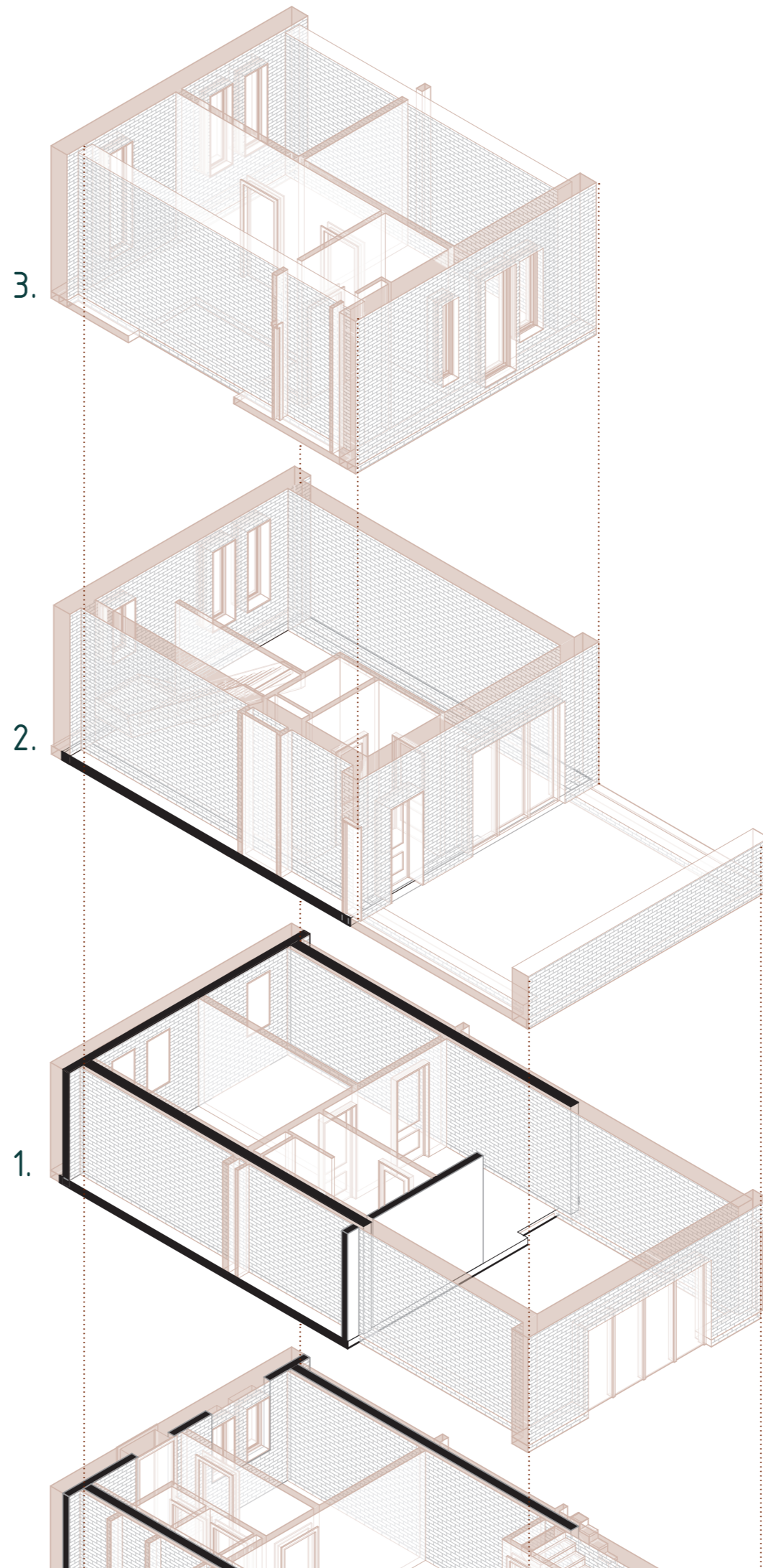
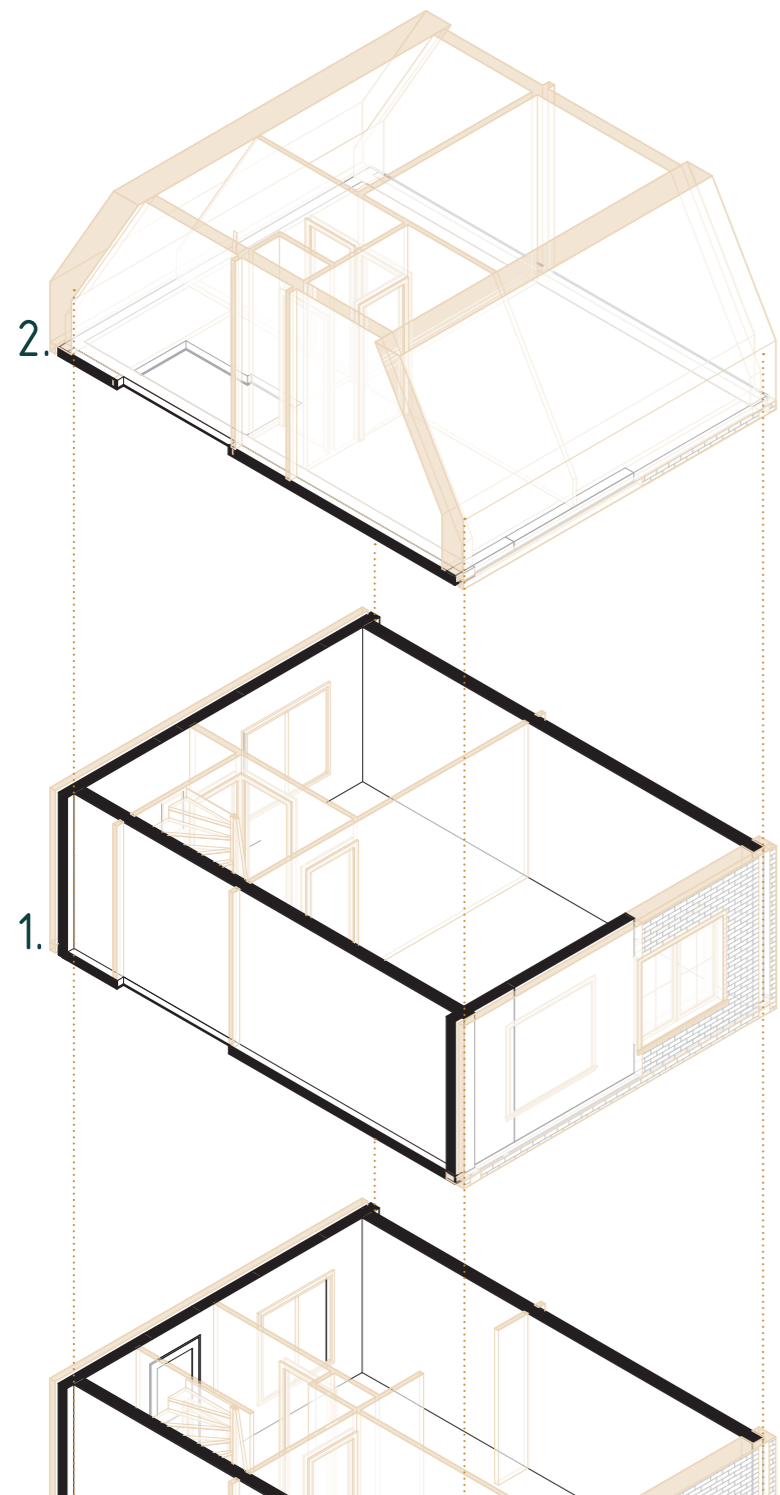


PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
isometric fragment
existing / new

SCALE
1:100



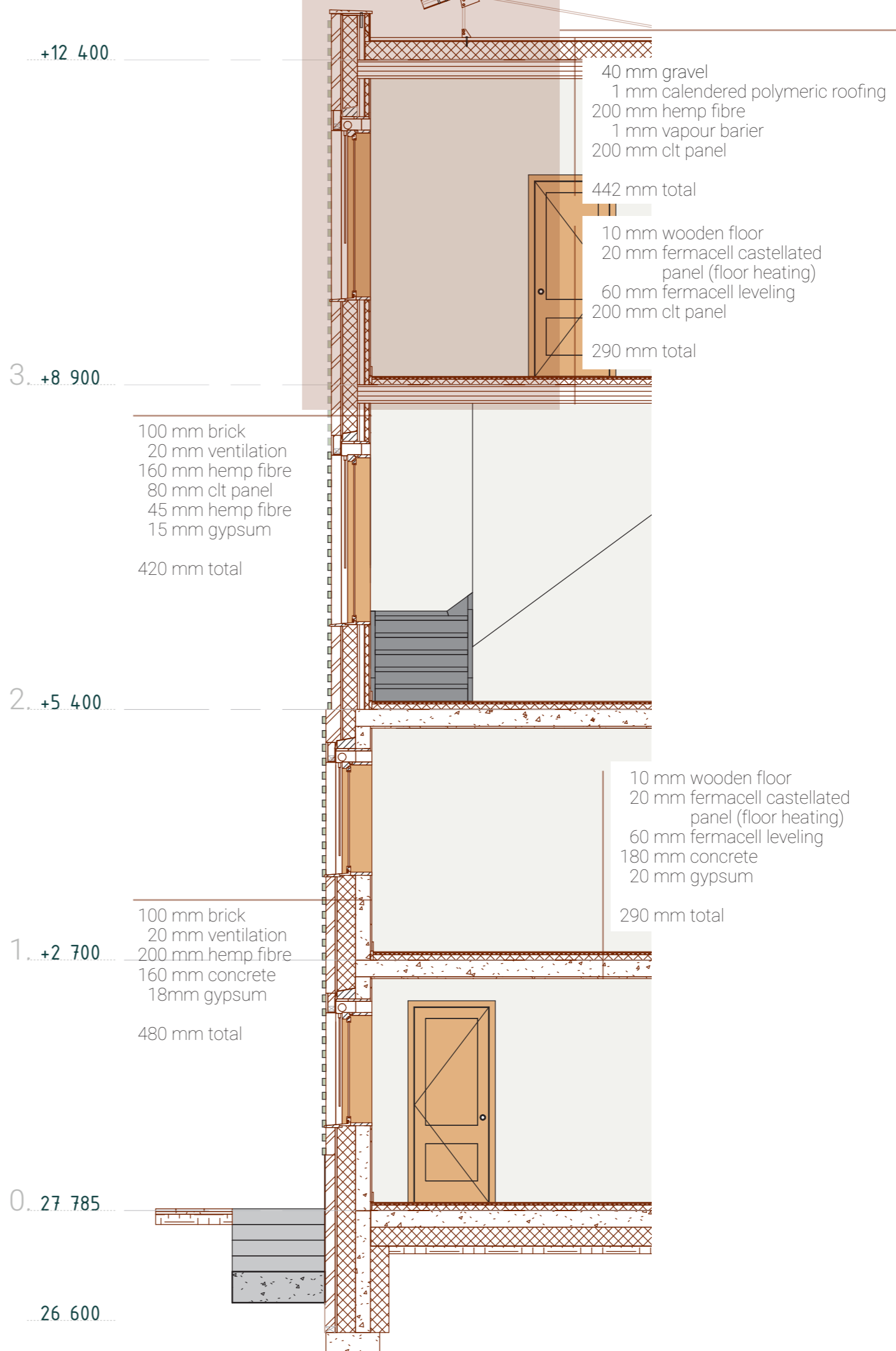


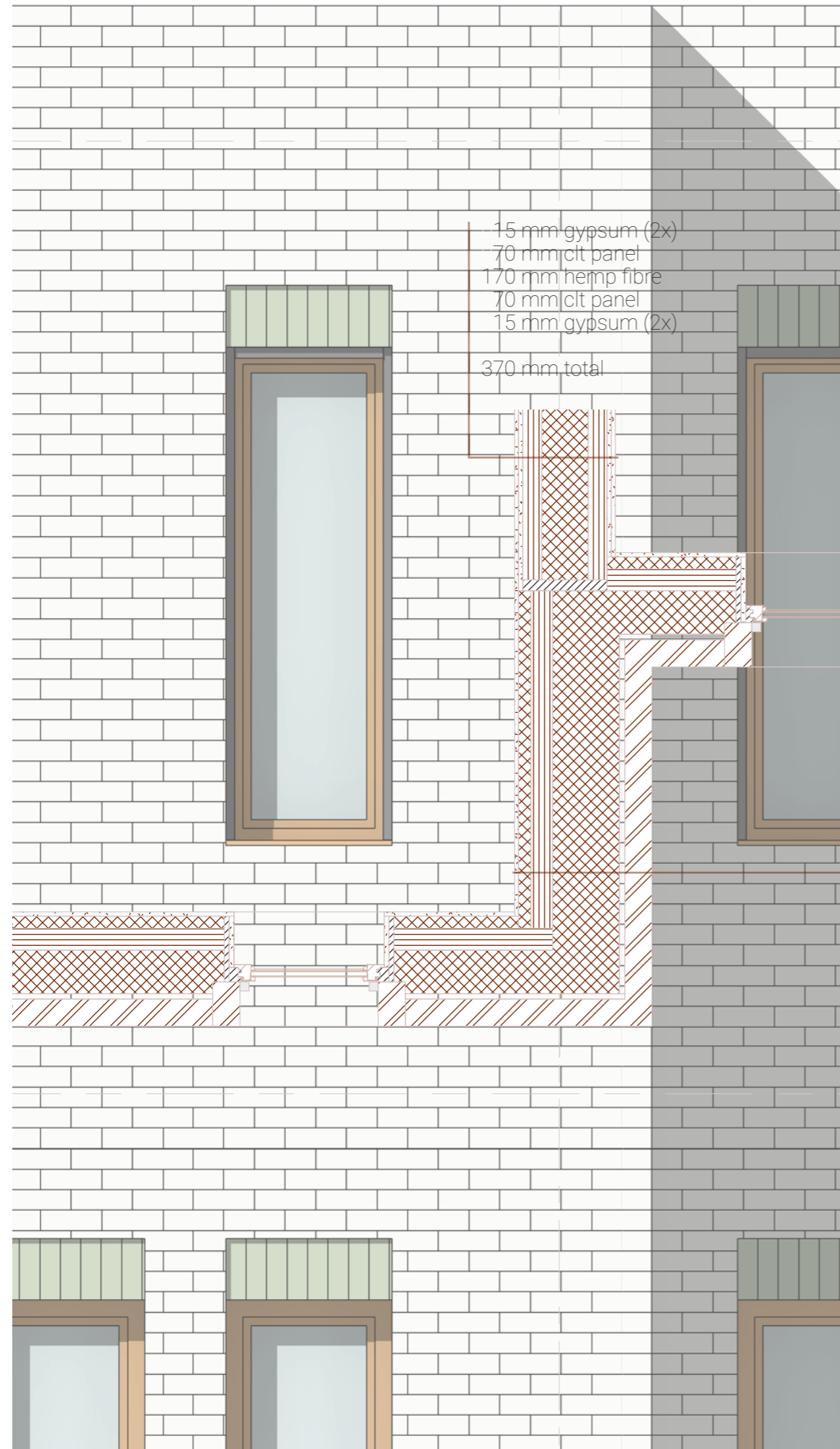
PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
isometric fragment
existing / new

SCALE
1:100





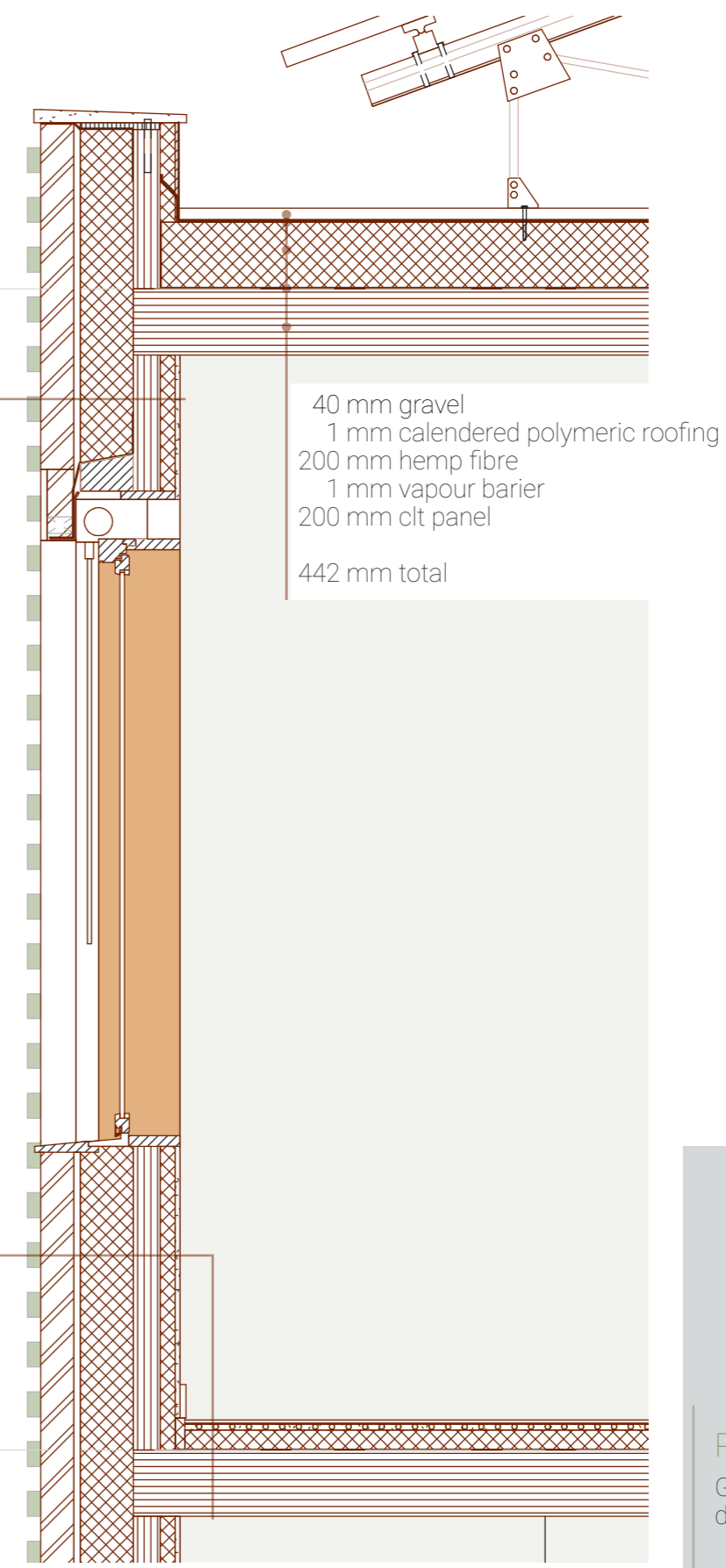


+12 400

100 mm brick
20 mm ventilation
160 mm hemp fibre
80 mm clt panel
45 mm hemp fibre
15 mm gypsum
420 mm total

10 mm wooden floor
20 mm fermacell castellated panel (floor heating)
60 mm fermacell leveling
200 mm clt panel
290 mm total

3. +8 900

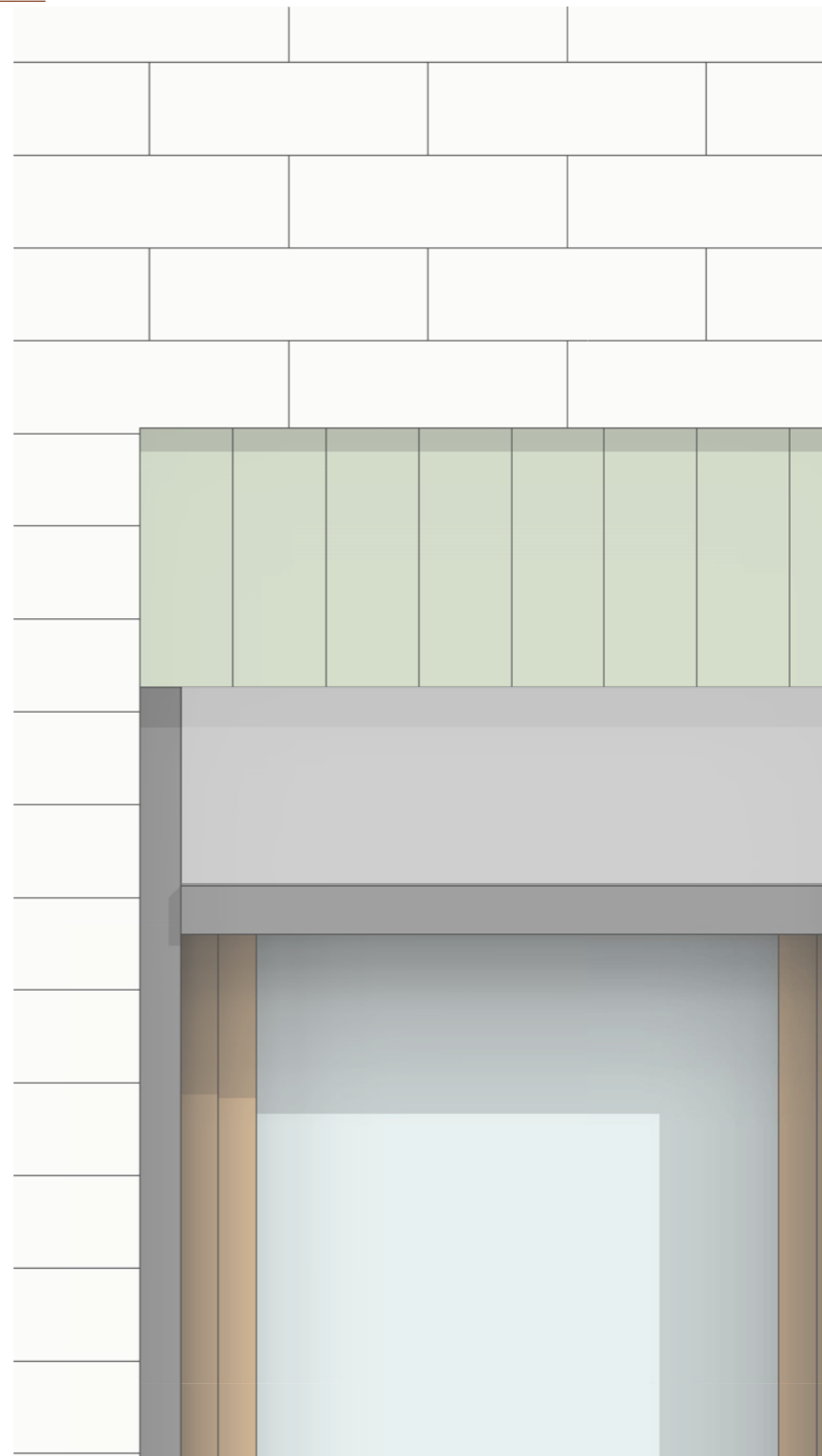
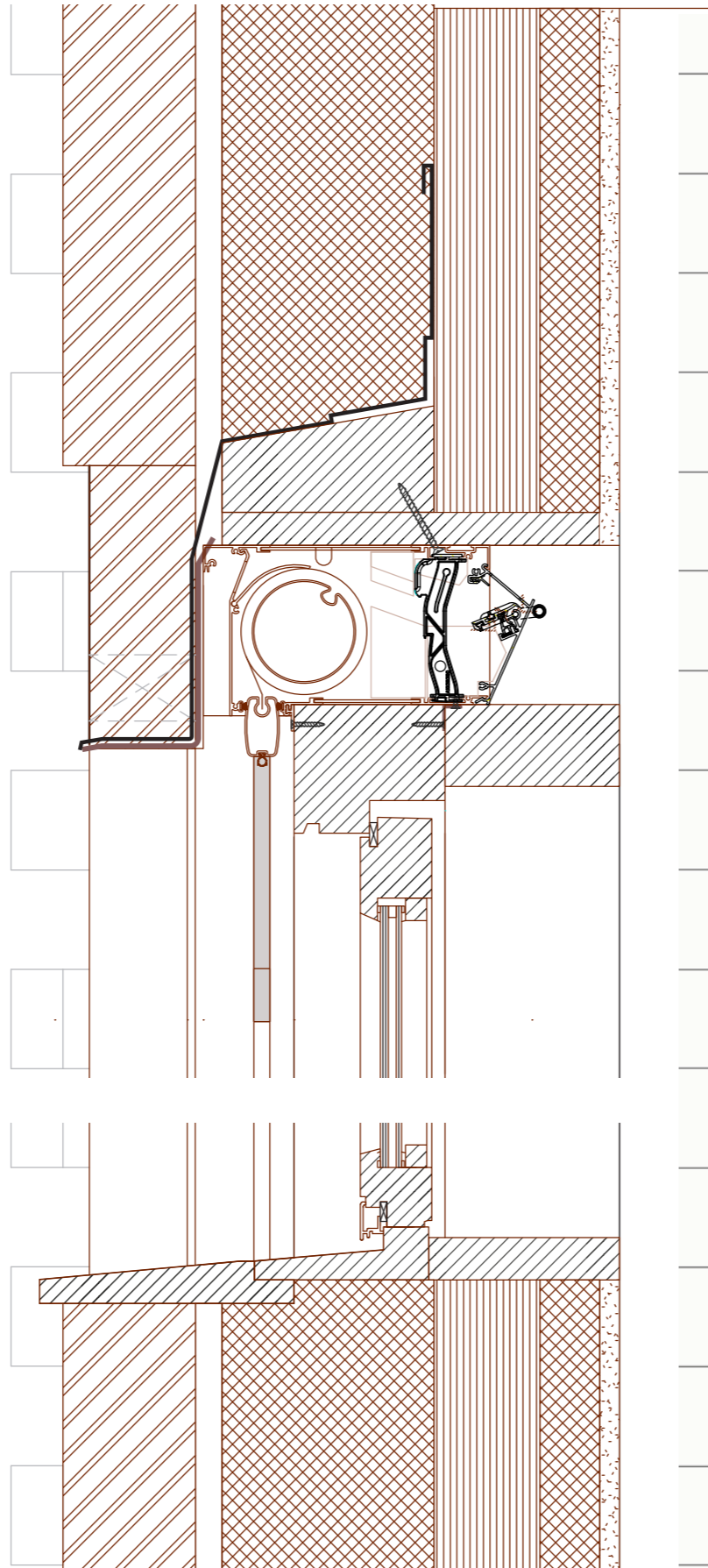


PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
facade fragment northside

SCALE
1 : 20



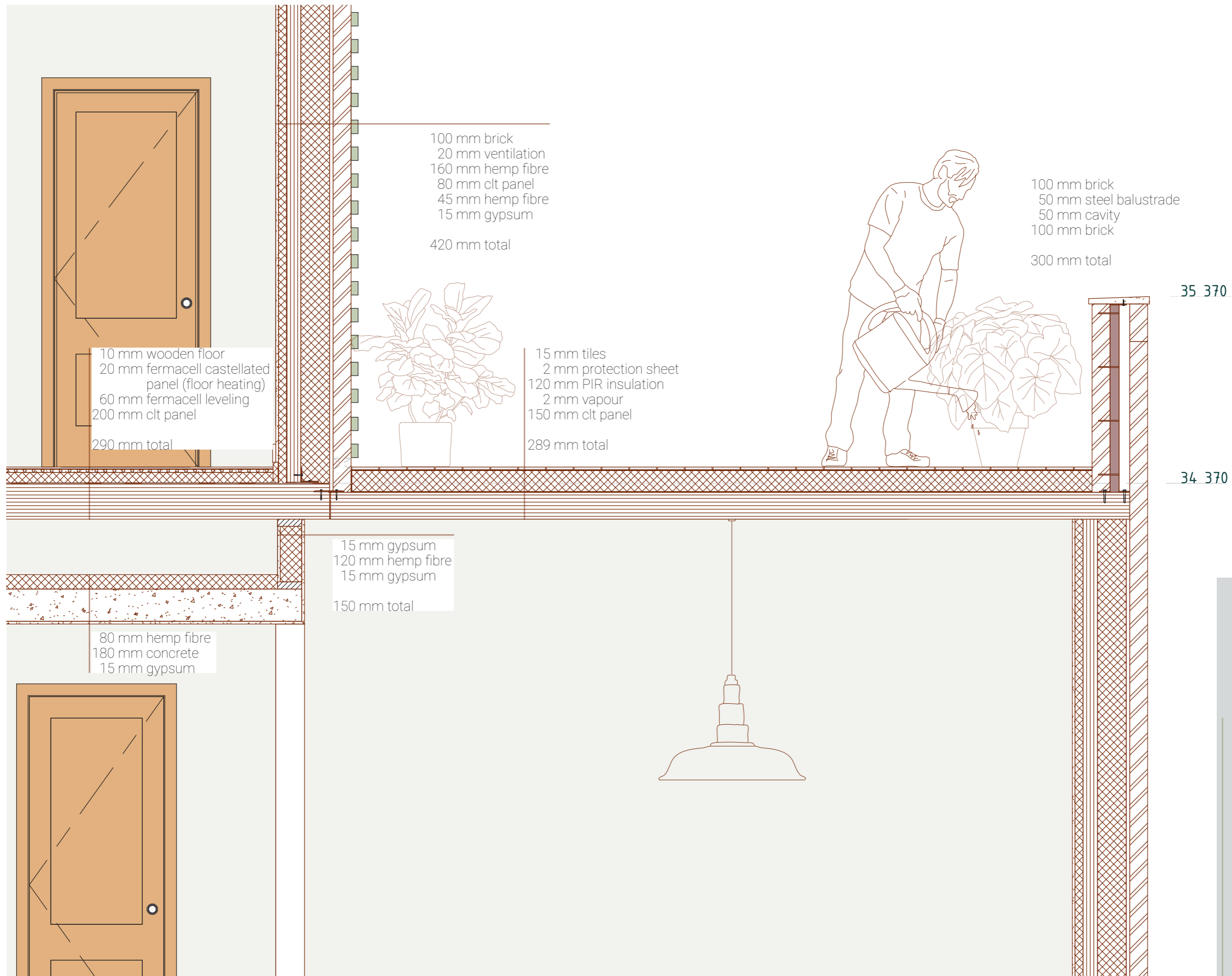


PROJECT
Green Balcony Nijmegen
design renew 62D

DRAWING
window fragment
northside

SCALE
1:5





PROJECT
Green Balcony Nijmegen
design renew 62D

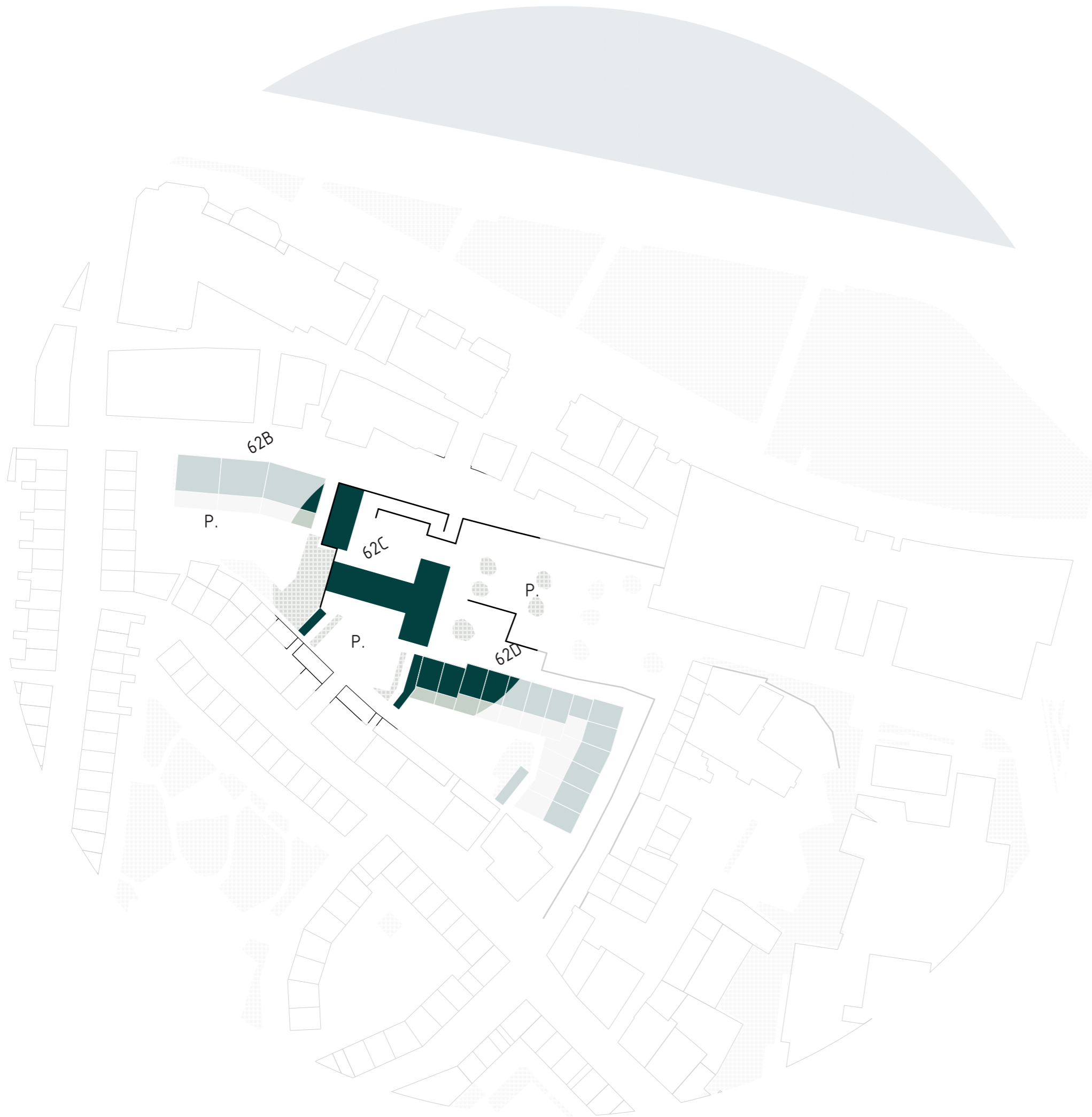
DRAWING
facade fragment southside

SCALE
1 : 20



Imkeliene Boersma __ 5114721

NEW DESIGN 62C

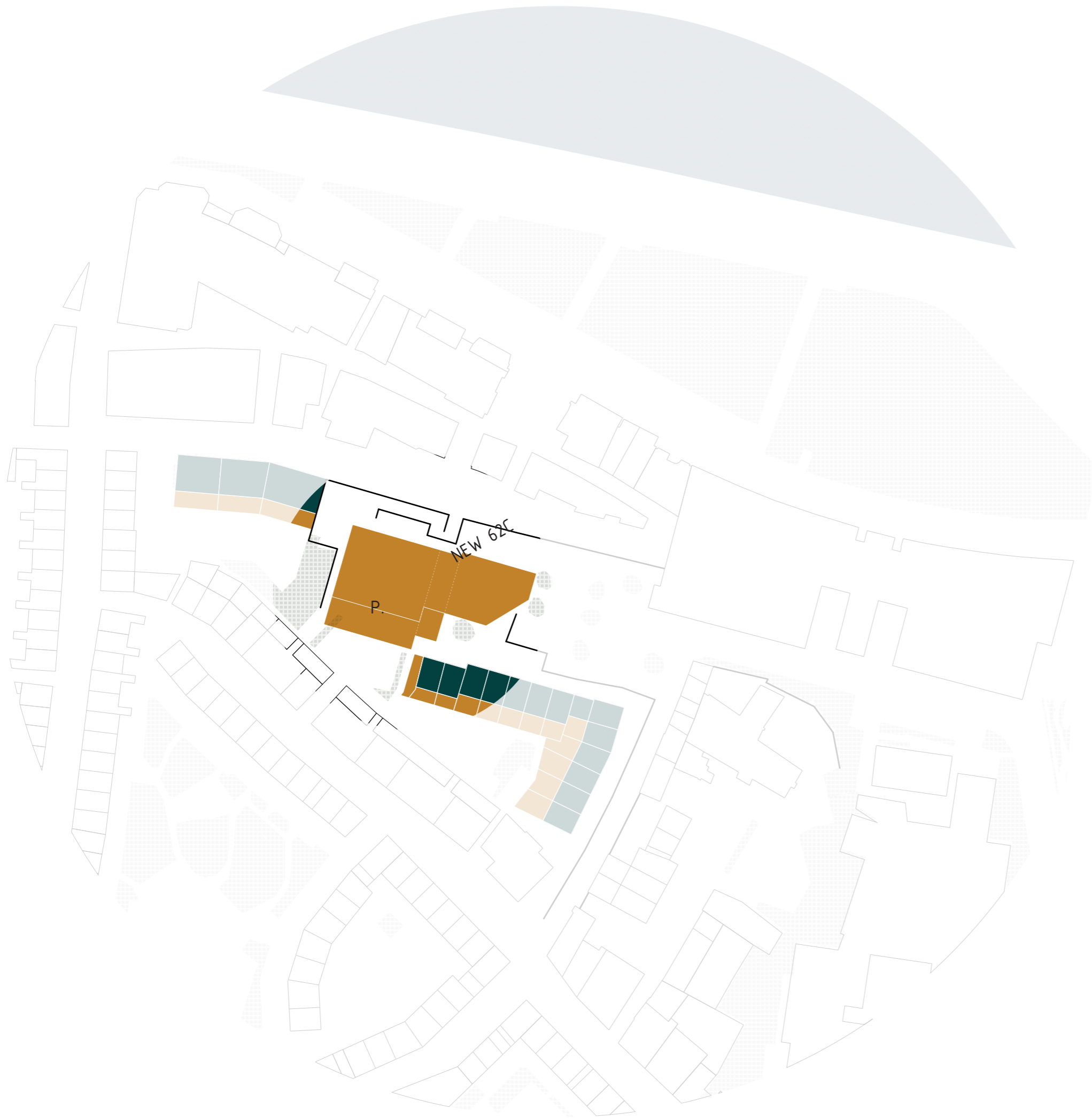


PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
plan situation existing

SCALE
1 : 1 000



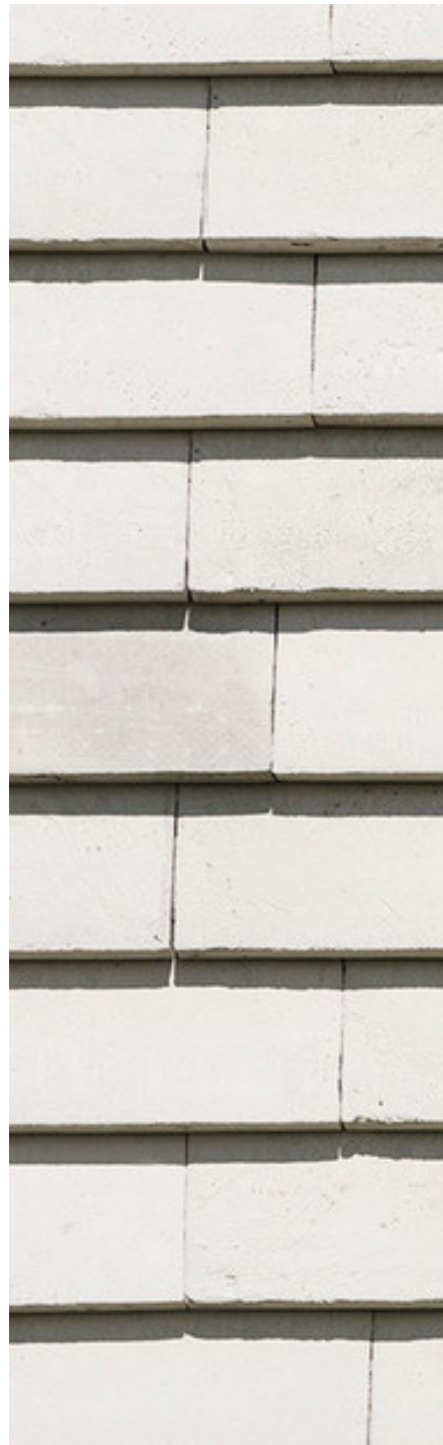


PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
plan situation new

SCALE
1 : 1 000





Petersen Tegl

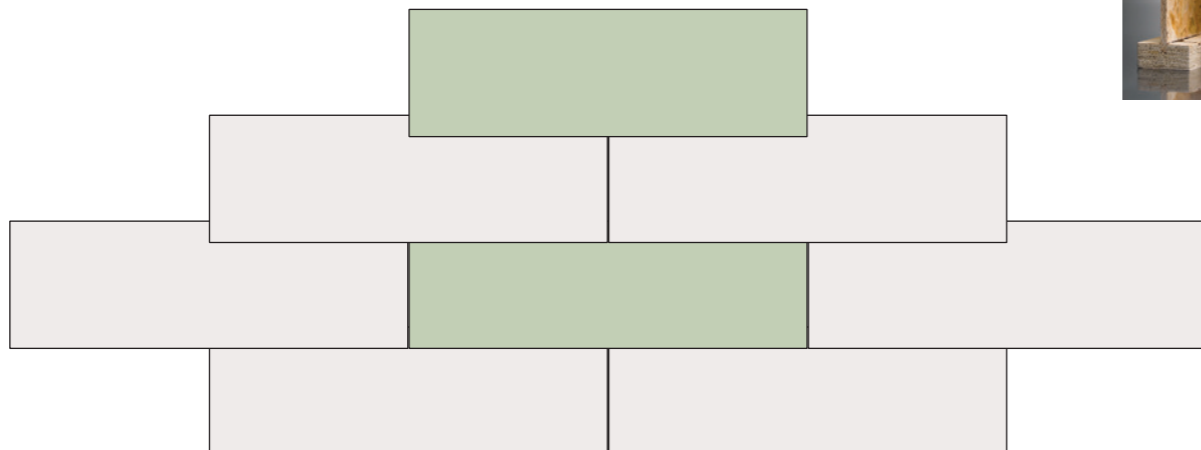


170 mm



528 mm

37 mm



flexible structure

- _ column structure for flexibility
- _ flexible grid: 5 400 x 7 200
- _ dry connections
- _ concrete basement
- _ concrete core

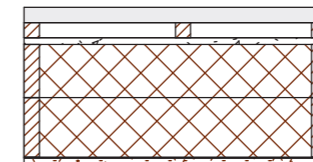
materials

- _ glulam columns/beams
- _ l-joint floor panels
- _ concrete stabilisation walls
- _ concrete core
- _ non-bearing timber frame wall
- _ brick shell facade tiles

space

- _ collective space as quality
- _ soundproof private space
- _ sightlines & circulation define shared spaces

facade



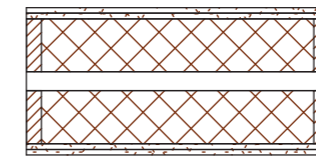
- 40 mm brick shells
 - 40 mm timber frame
 - 18 mm duripanel (cementitious wood fibre)
 - 300 mm hemp fibre
 - 1 mm vapour
 - 15 mm gypsum
- 414 mm total (Rc 5,85)

interior walls



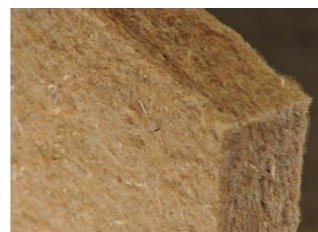
- 15 mm gypsum (2x)
- 300 mm concrete panel
- 15 mm gypsum (2x)

360 mm total



- 15 mm gypsum (2x)
- 140 mm hemp fibre
- 50 mm cavity
- 140 mm hemp fibre
- 15 mm gypsum (2x)

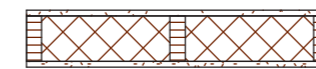
390 mm total



biofib
chanvre

THERMAL INSULATION
100% HEMP

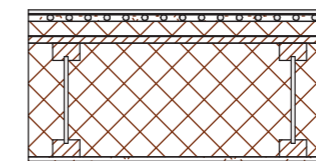
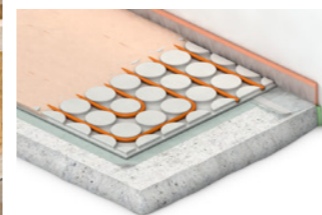
Thermal: ●●● Acoustic: ●●●●
Phase displacement: ●●●●● Hygrothermic: ●●●●●



- 15 mm gypsum
- 80 mm hemp fibre OR
- 120 mm hemp fibre
- 15 mm gypsum

110 / 150 mm total

floors



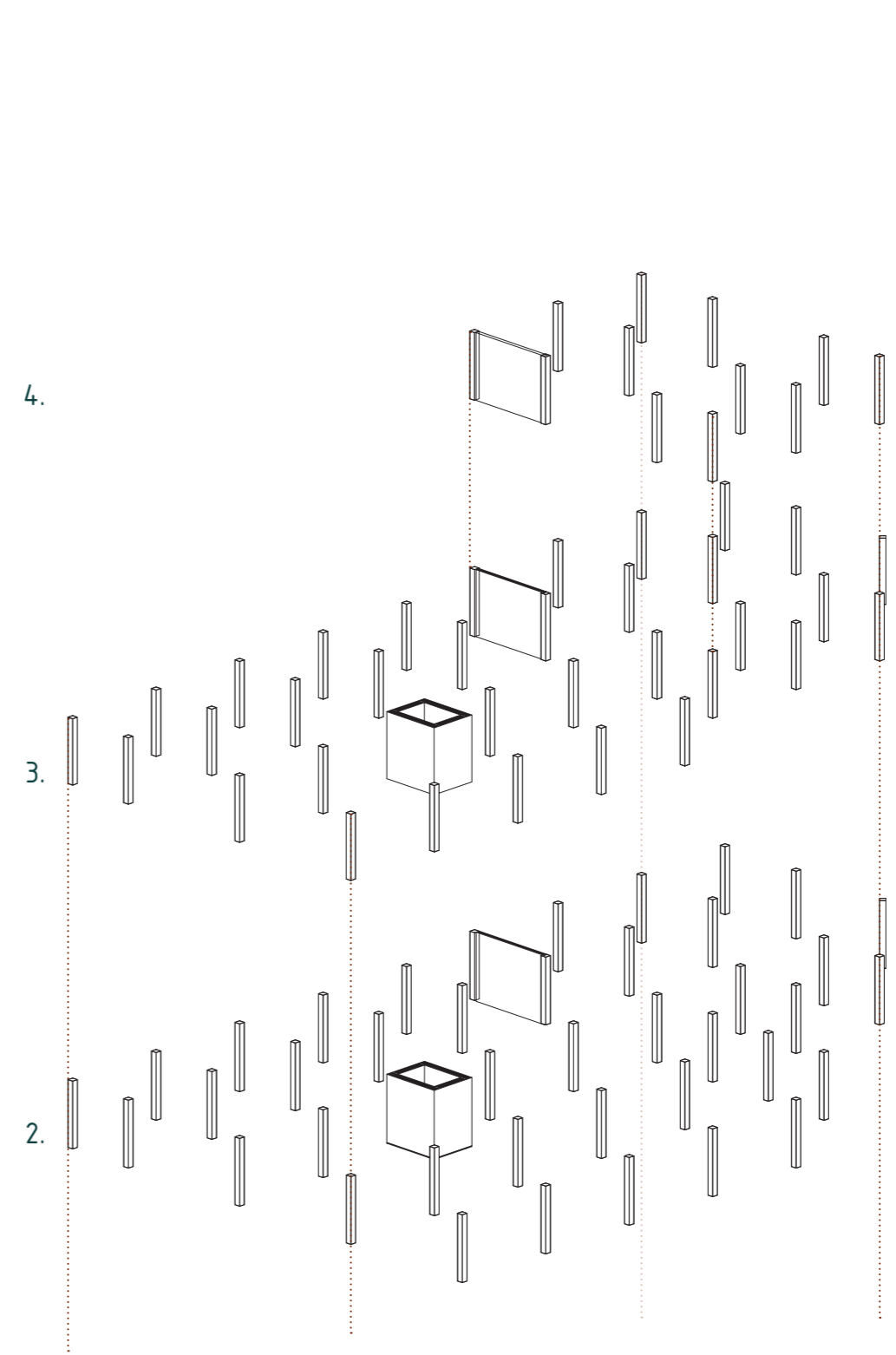
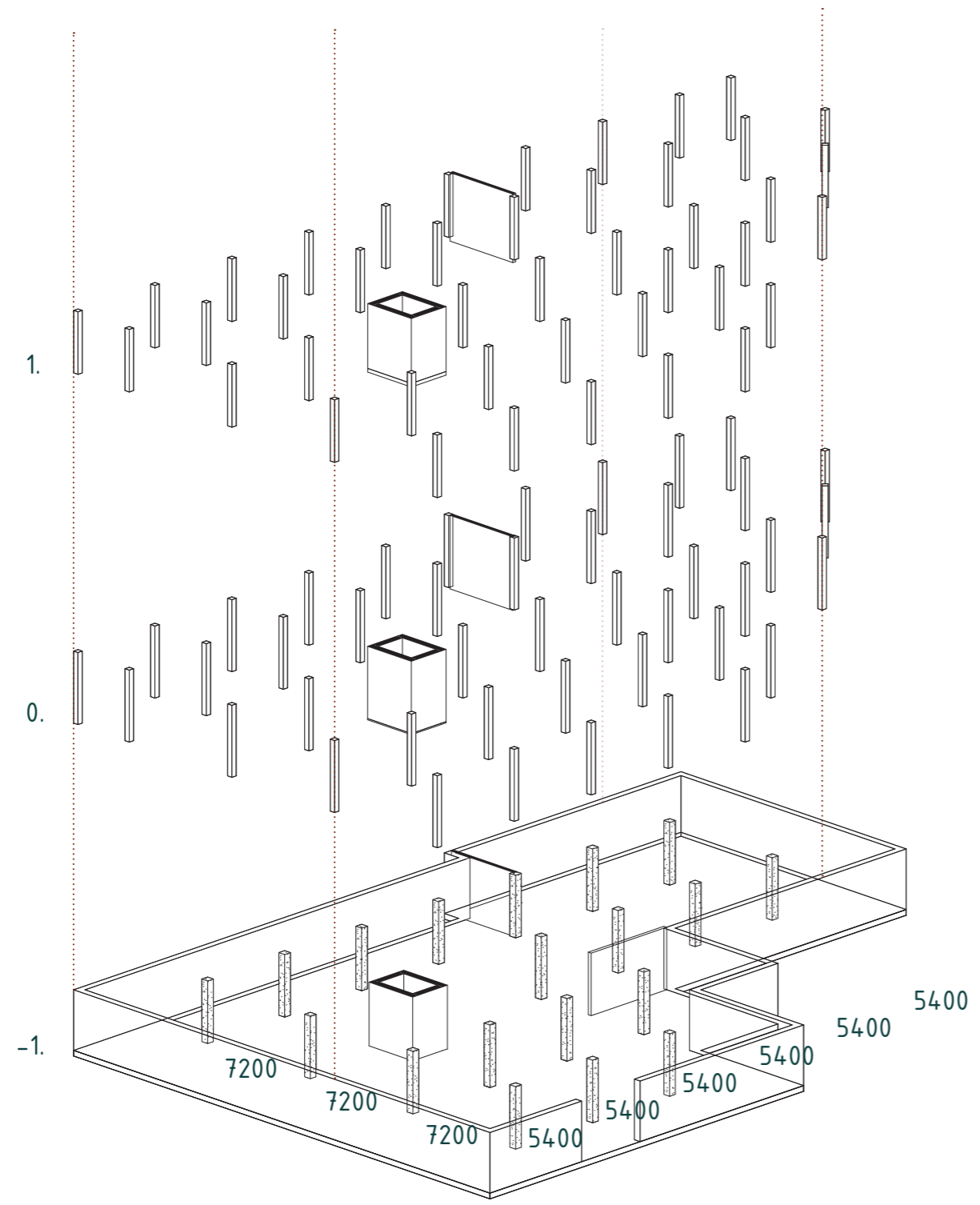
- 10 mm wooden floor
- 20 mm fermacell castellated panel (floor heating)
- 40 mm fermacell leveling
- 18 mm osb panel
- 300 mm l-joint profile + hemp fibre
- 12 mm gypsum

400 mm total

PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
construction concept
existing / new

SCALE
1 : 20

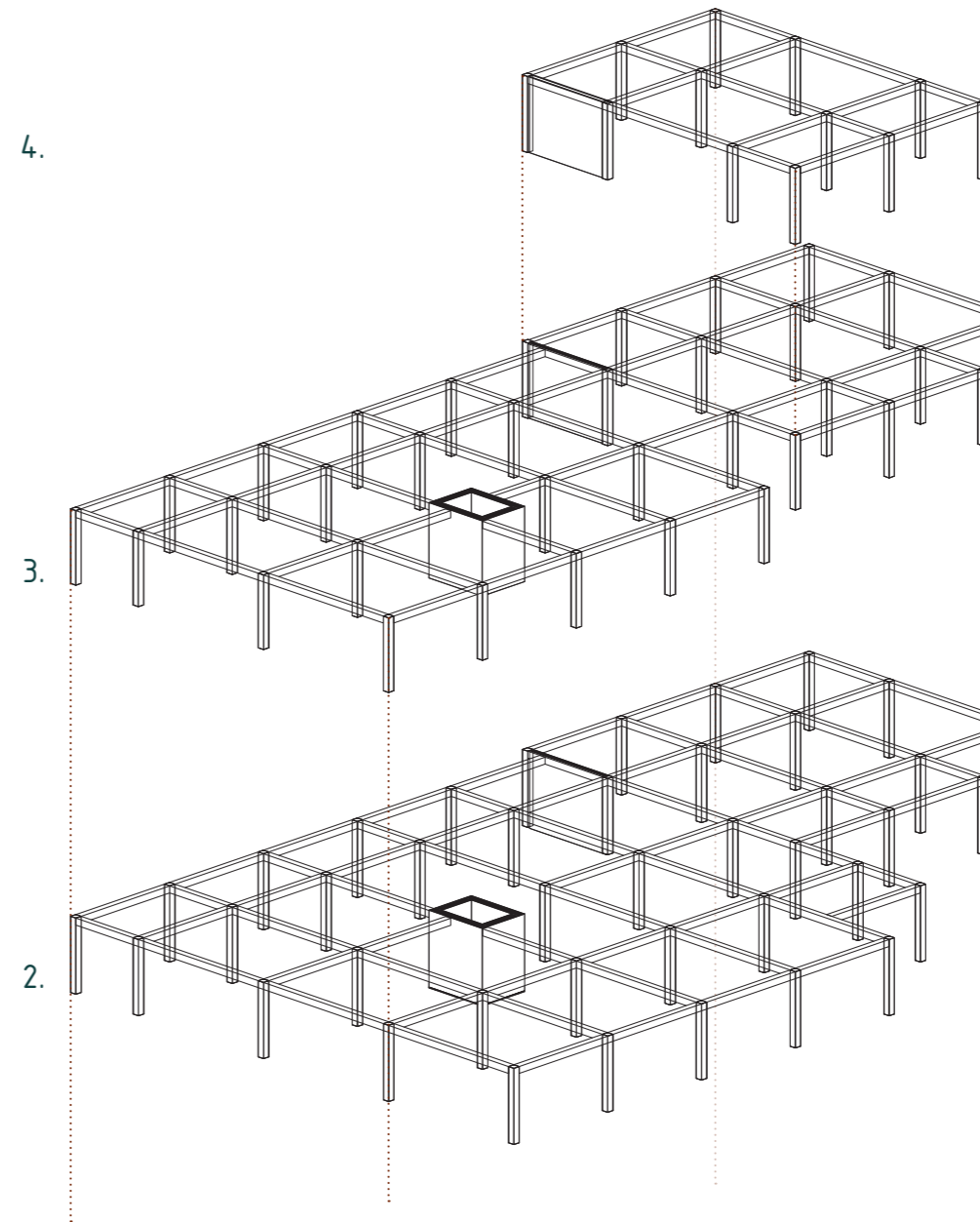
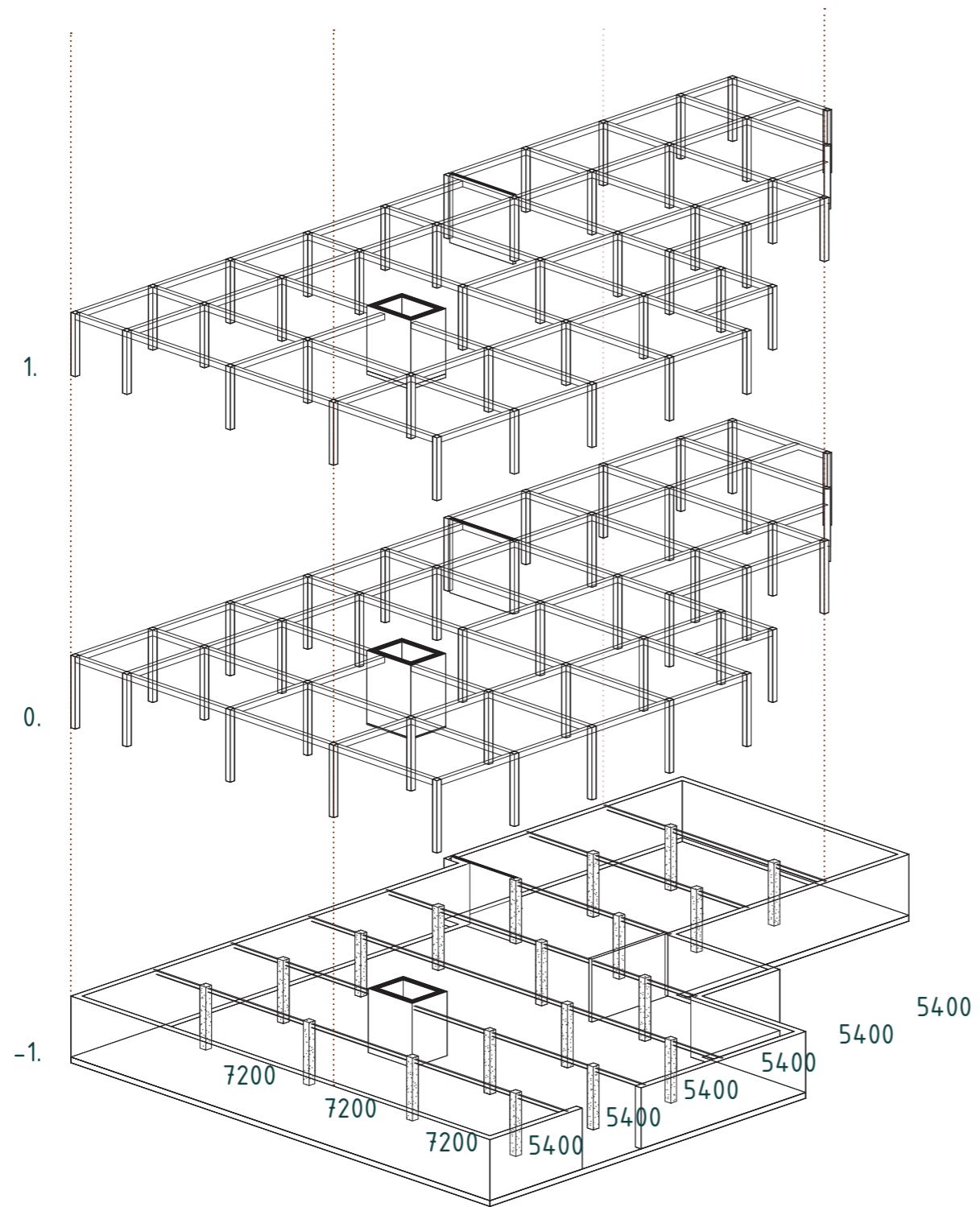


PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
construction structure

SCALE
isometric





PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
construction structure

SCALE
isometric



62C OLD

1 285 m2 (313 + 972)

typologies

dwelling (social housing)
storage
parking

dwelling amount

15 apartments

4x 1 floor
11x 2 floor

12x 1 bedroom
3x 2 bedroom

residents

15 - 33 people

SPACE

- _ collective space as quality
- _ soundproof private space
- _ sightlines & circulation define shared spaces

62C NEW

3 100 m2

typologies

dwelling
storage
parking
restaurant
shop
office
farming
shared roof
shared facilities

dwelling amount

30 apartments

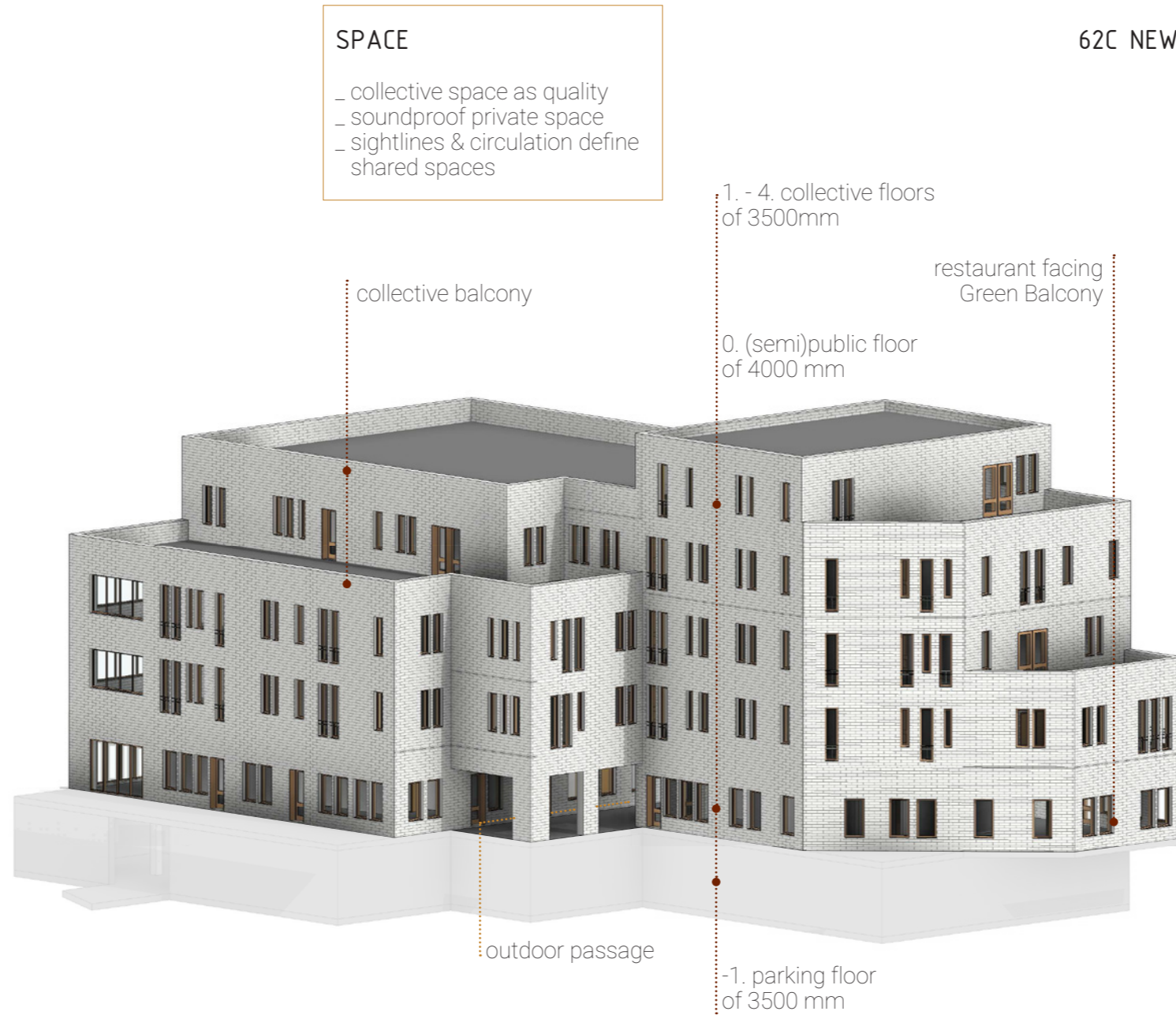
30x 1 floor

2x studio
20x 1 bedroom
6x 2 bedroom

3x guestroom

residents

28 - 60 people



PROJECT

Green Balcony Nijmegen
design new 62C

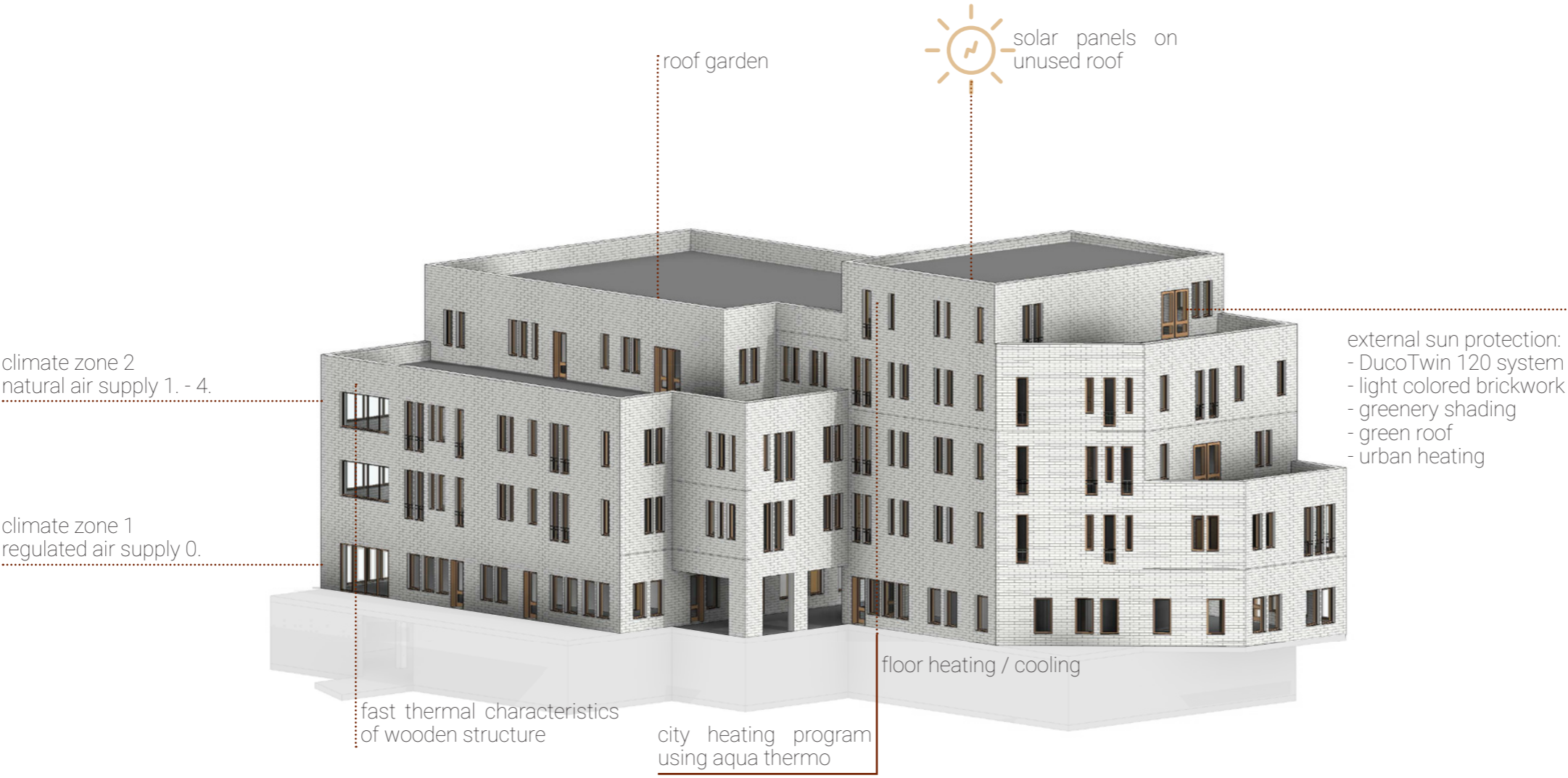
DRAWING

typology concept
existing / new

SCALE
isometric



62C new

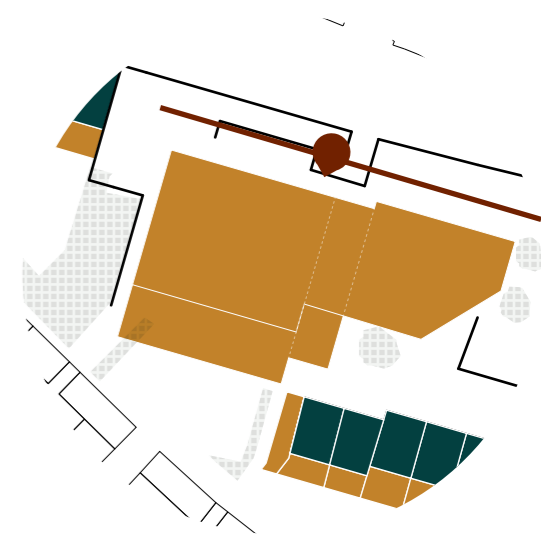


PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
climate concept
existing / new

SCALE
isometric





1 : 1 000



Imkeleene Boersma _ 5114721

PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
facade north new

SCALE
1 : 150



1 : 1 000

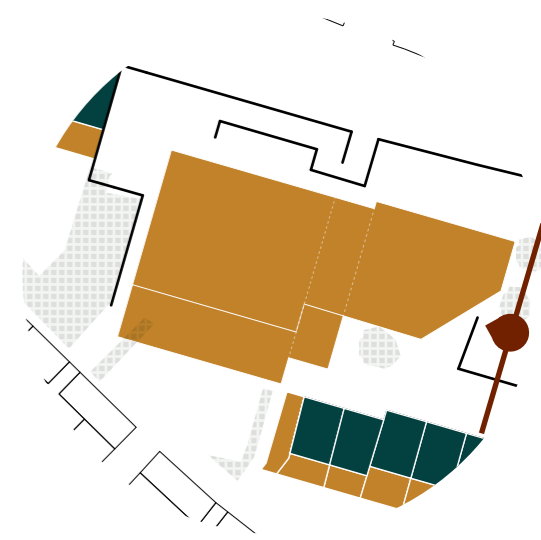


Imkeliene Boersma _ 5114721

PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
facade south new

SCALE
1 : 150



1 : 1 000



Imkeliene Boersma _ 5114721

PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
facade east new

SCALE
1 : 150



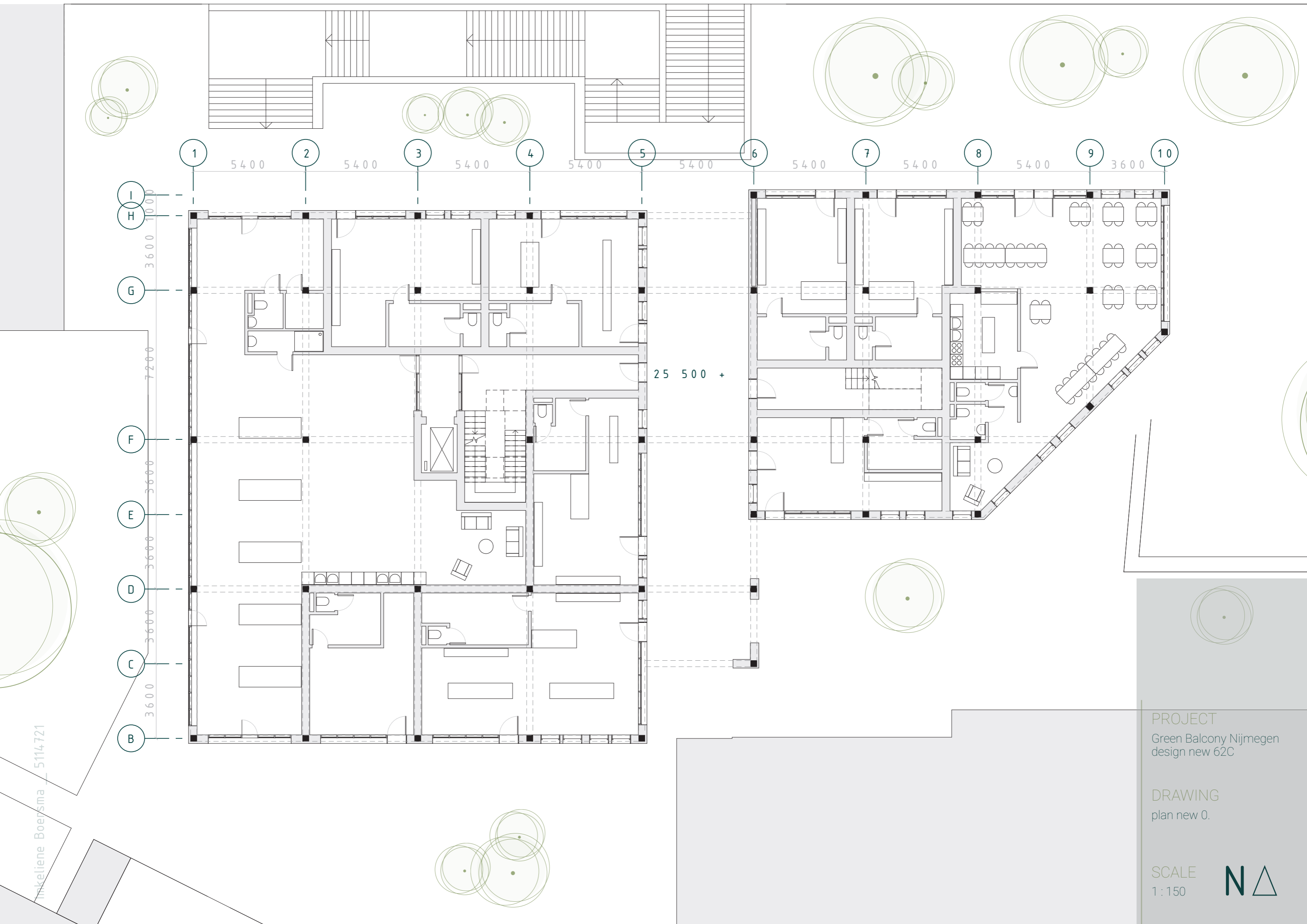
1 : 1 000



PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
facade west new

SCALE
1 : 150



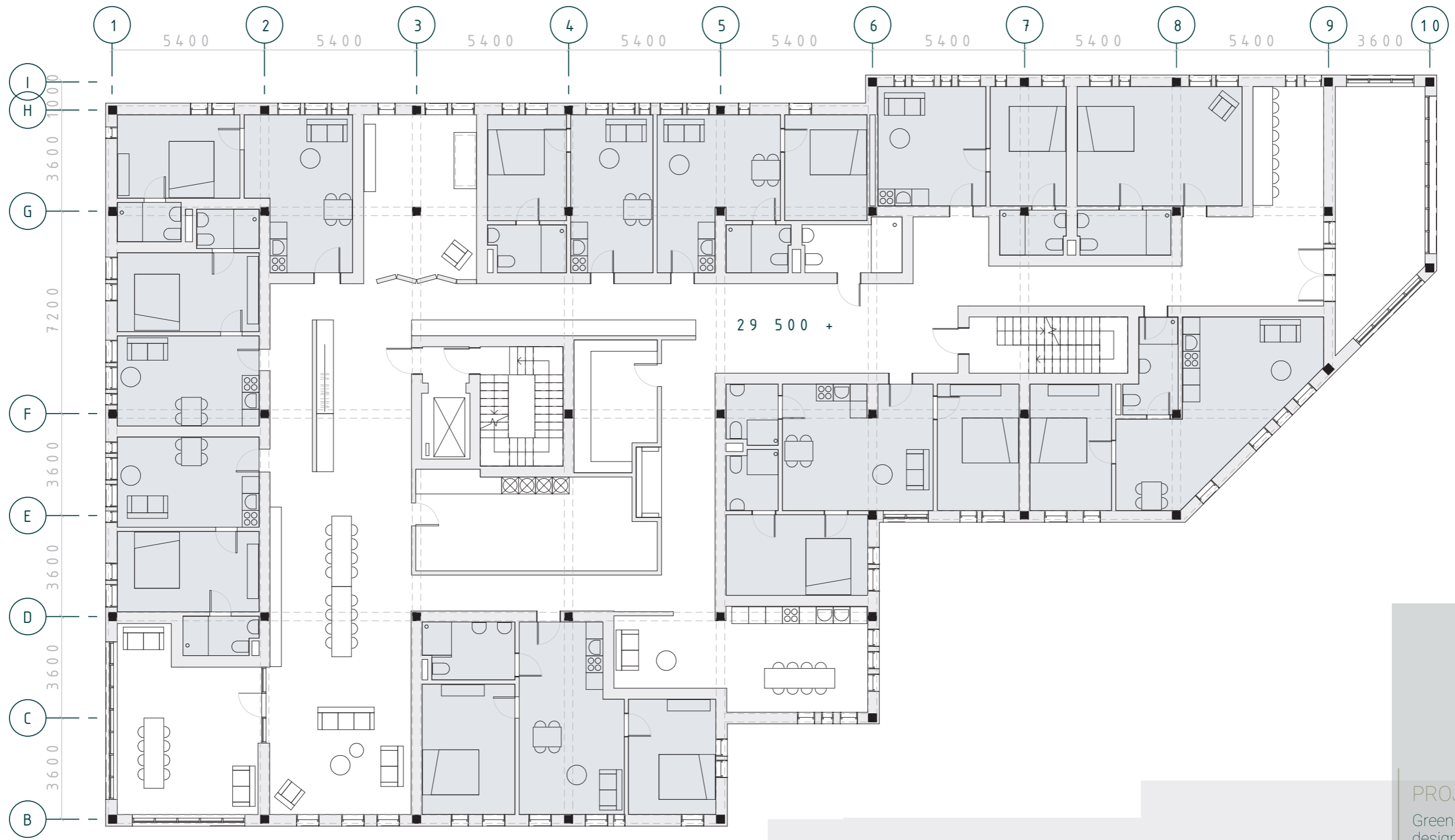
inkeliene Boersma _ 5114721

PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
plan new 0.

SCALE
1 : 150



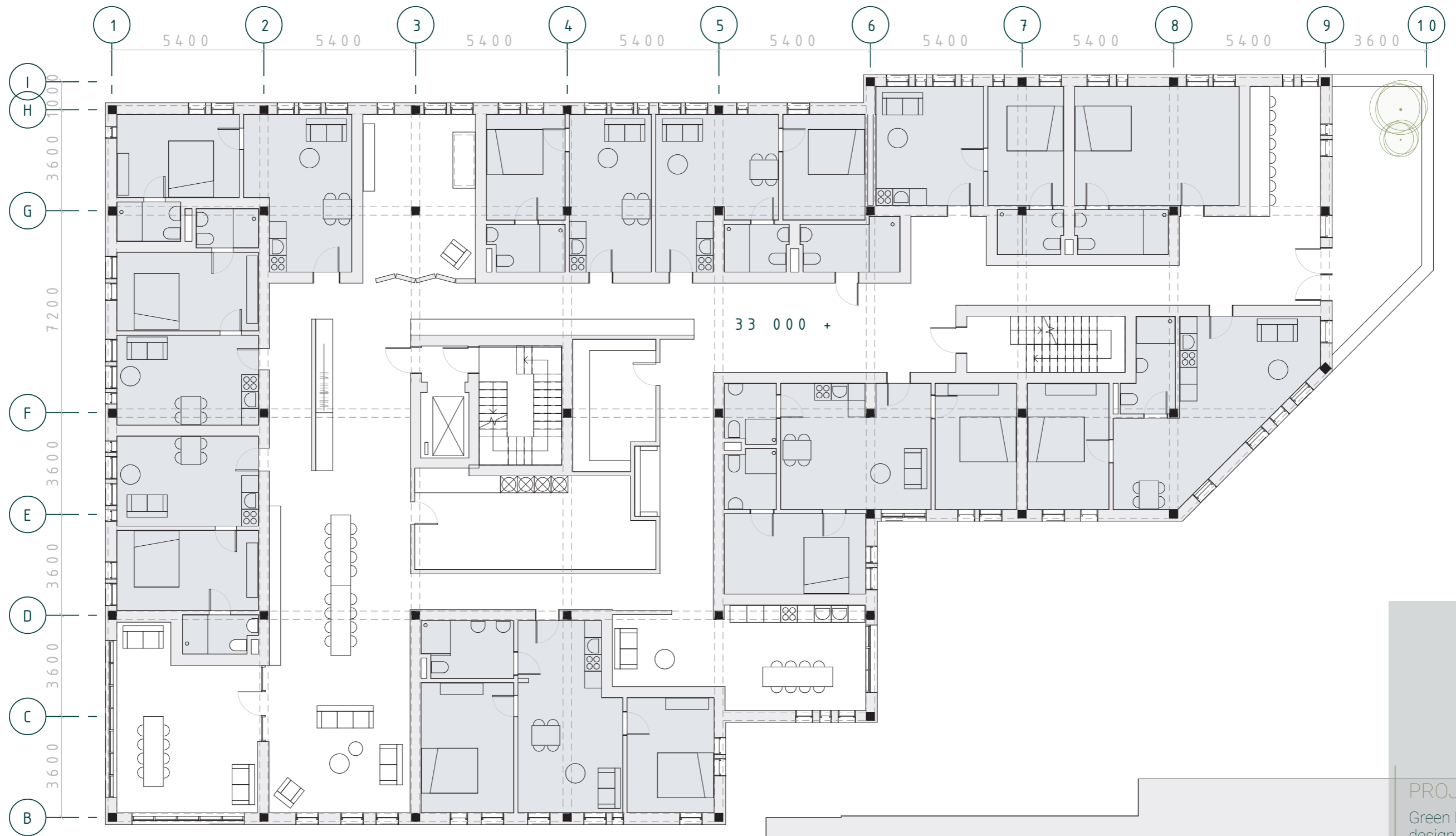


PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
plan new 1.

SCALE
1 : 150





PROJECT

Green Balcony Nijmegen
design new 62C

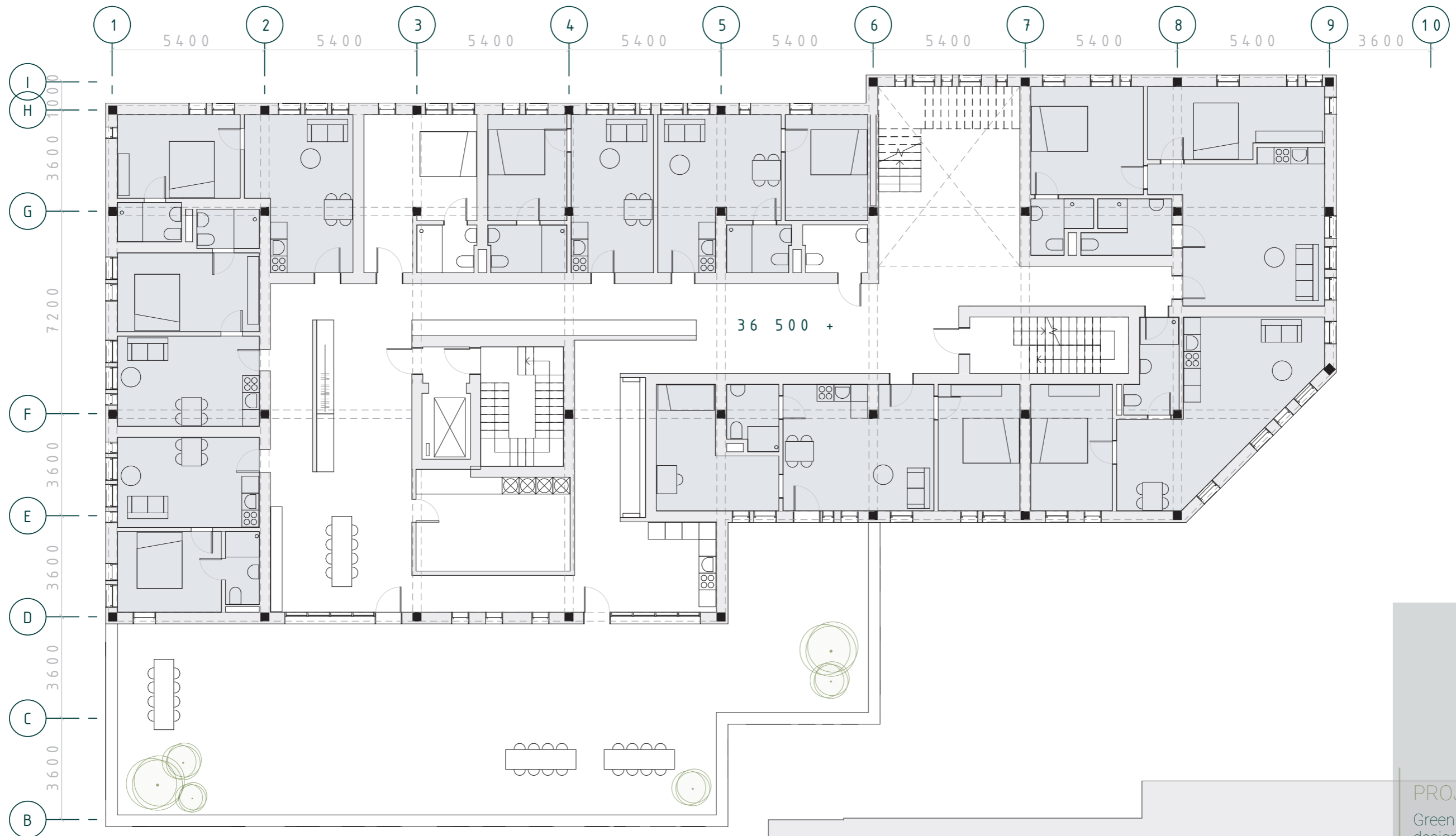
DRAWING

plan new 2.

SCALE

1 : 150



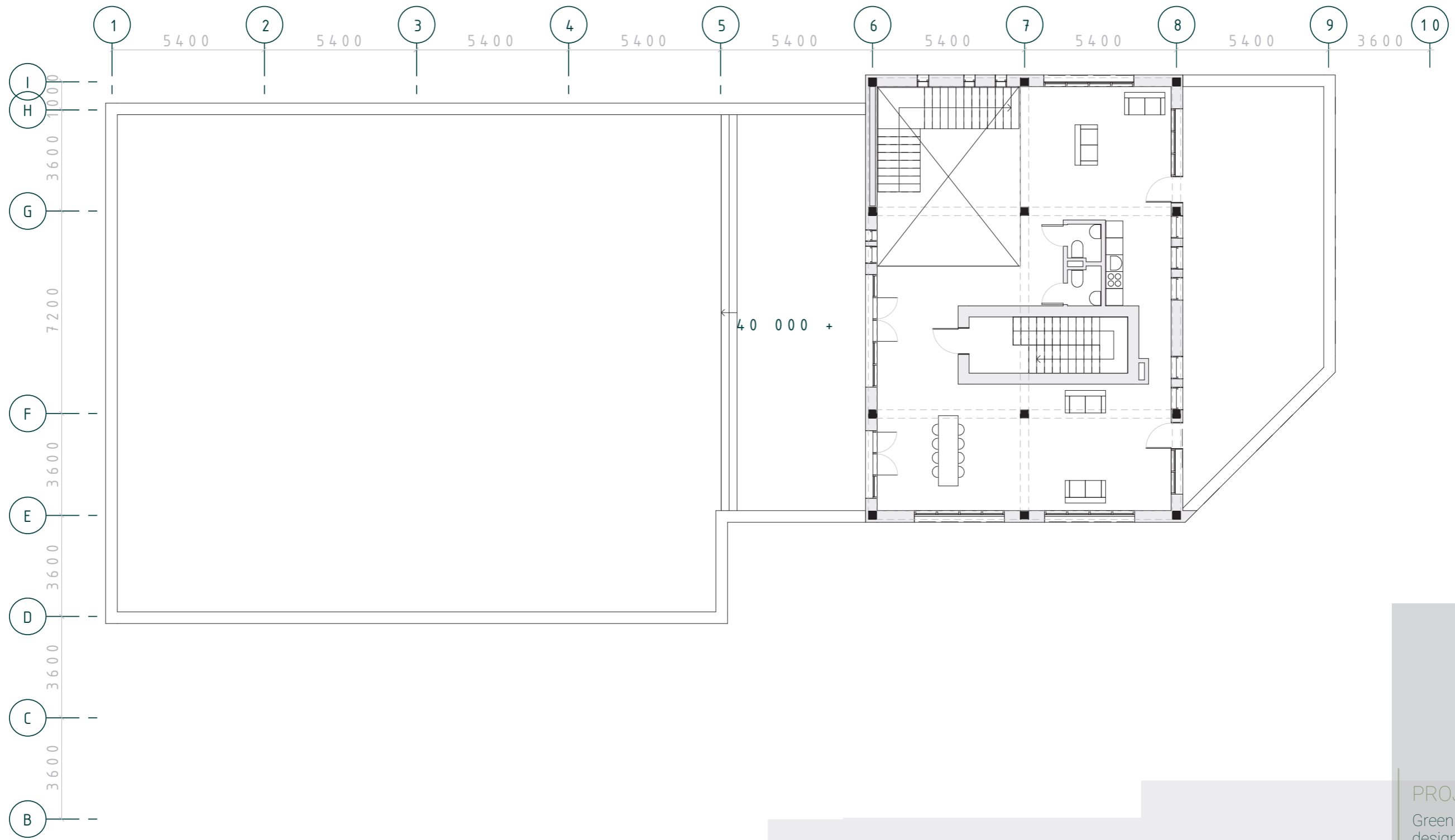


PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
plan new 3.

SCALE
1 : 150



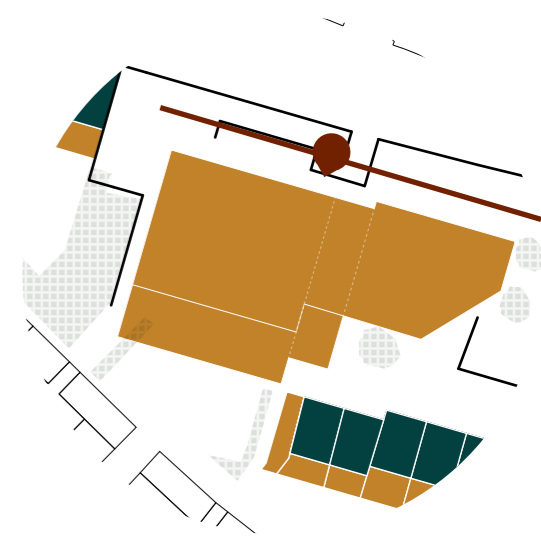


PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
plan new 4.

SCALE
1 : 150





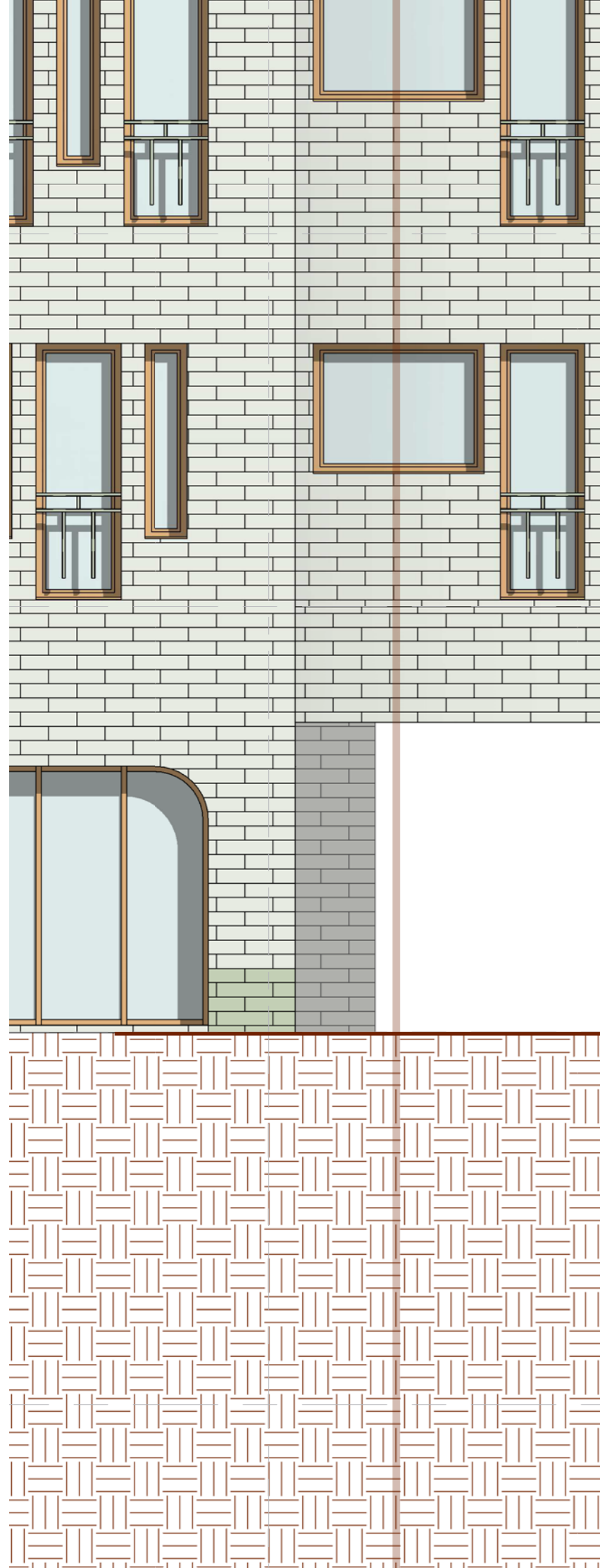
1 : 1 000



PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
facade north new

SCALE
1 : 150



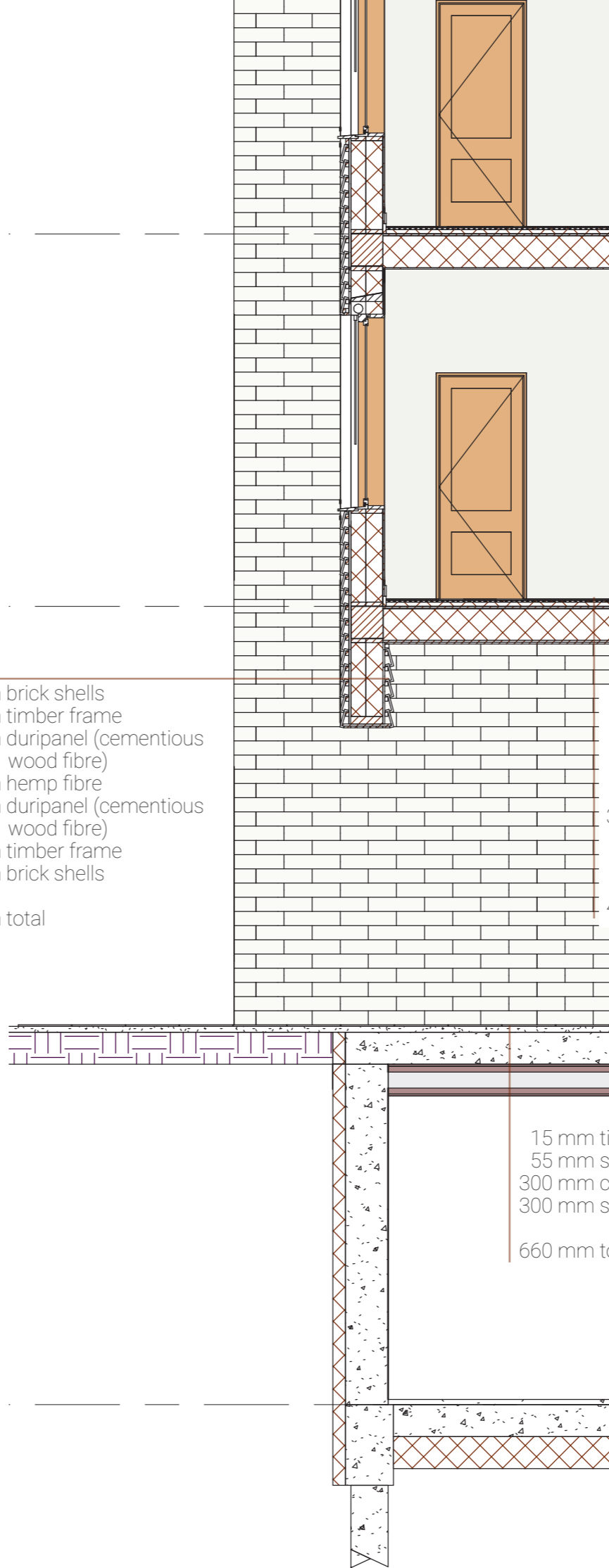
2. +7 500

1. +4 000

0. 25 500

-1. -3 500

40 mm brick shells
 40 mm timber frame
 18 mm duripanel (cementious wood fibre)
 300 mm hemp fibre
 18 mm duripanel (cementious wood fibre)
 40 mm timber frame
 40 mm brick shells
 496 mm total



10 mm wooden floor
 20 mm fermacell castellated panel (floor heating)
 40 mm fermacell leveling
 18 mm osb panel
 300 mm l-joint profile + hemp fibre
 18 mm osb panel
 18 mm wooden slates finish
 424 mm total

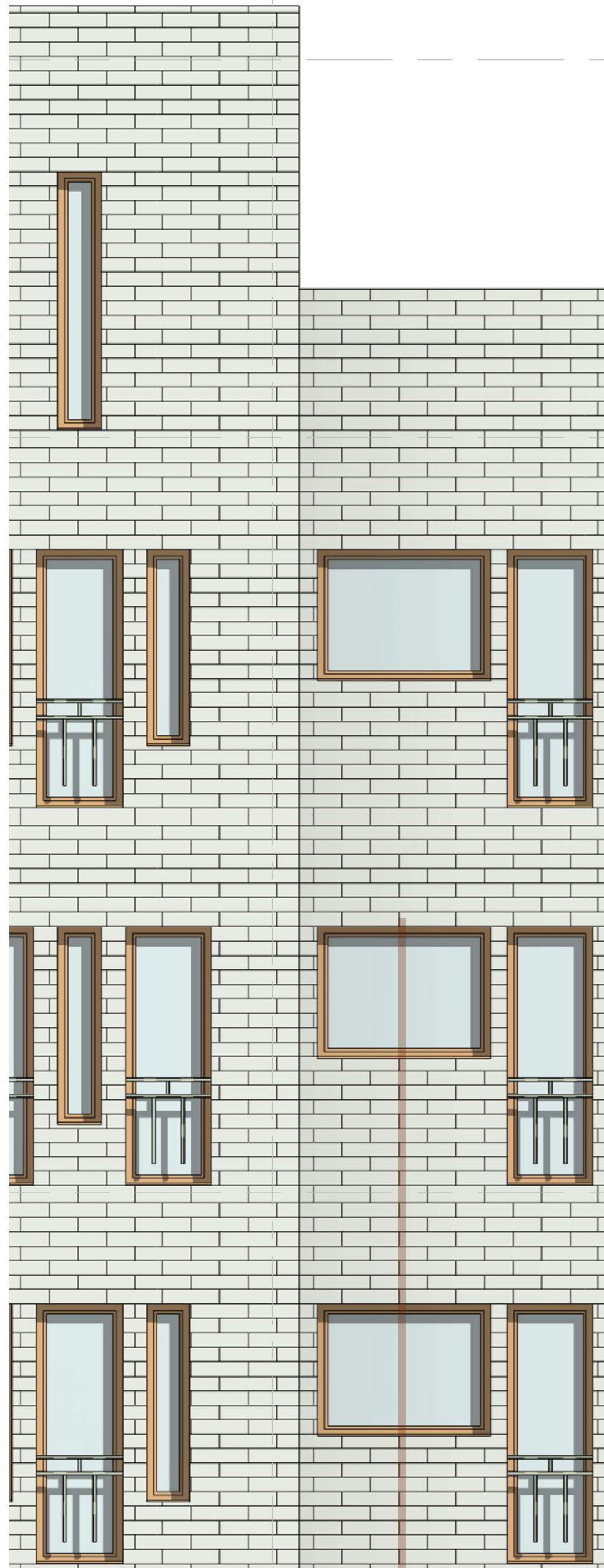
15 mm tiles
 55 mm sand
 300 mm concrete floor in situ
 300 mm steel beam (plumbing space)
 660 mm total

PROJECT
 Green Balcony Nijmegen
 design new 62C

DRAWING
 facade fragment northside

SCALE
 1 : 50





+18 000

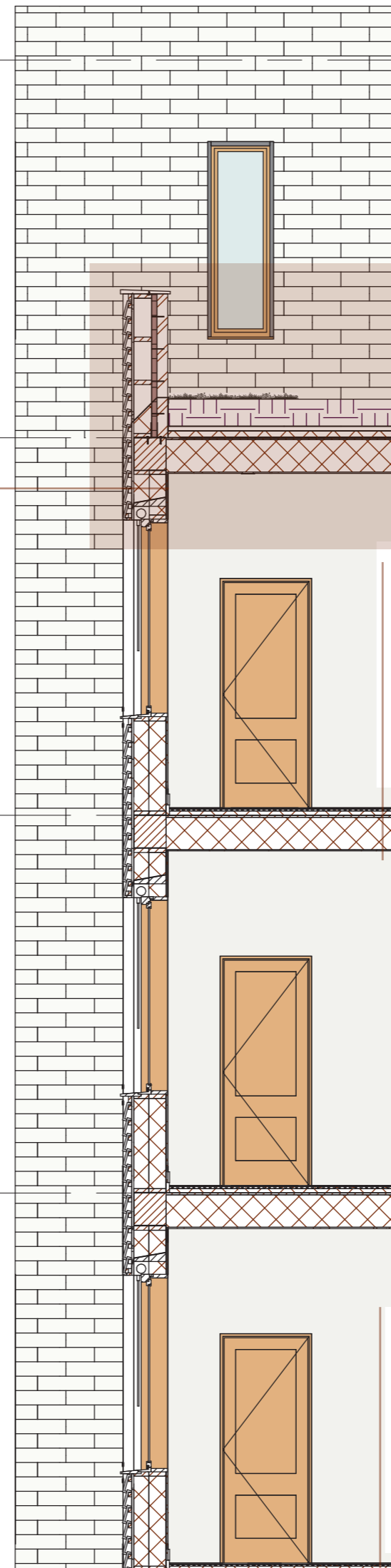
4. +14 500

40 mm brick shells
 40 mm timber frame
 18 mm duripanel (cementious wood fibre)
 300 mm hemp fibre
 1 mm vapour
 15 mm gypsum
 414 mm total (Rc 5,85)

3. +11 000

2. +7 500

1. +4 000



1: 20 detail

10 mm wooden floor
 20 mm fermacell castellated panel (floor heating)
 40 mm fermacell leveling
 18 mm osb panel
 300 mm l-joint profile + hemp fibre
 12 mm gypsum
 400 mm total

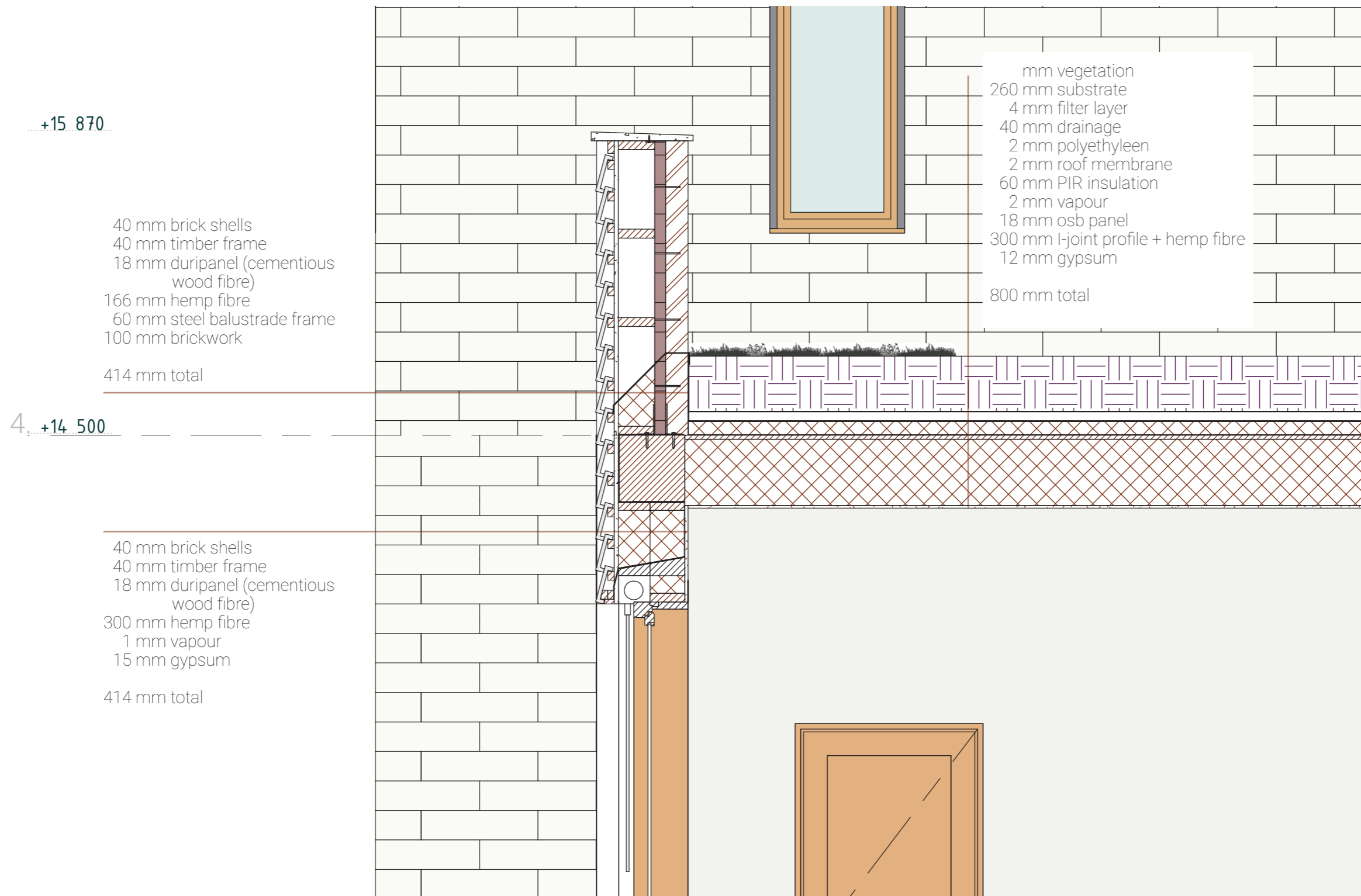
10 mm wooden floor
 20 mm fermacell castellated panel (floor heating)
 40 mm fermacell leveling
 18 mm osb panel
 300 mm l-joint profile + hemp fibre
 18 mm osb panel
 18 mm wooden slates finish
 424 mm total

PROJECT
 Green Balcony Nijmegen
 design new 62C

DRAWING
 facade fragment northside

SCALE
 1 : 50



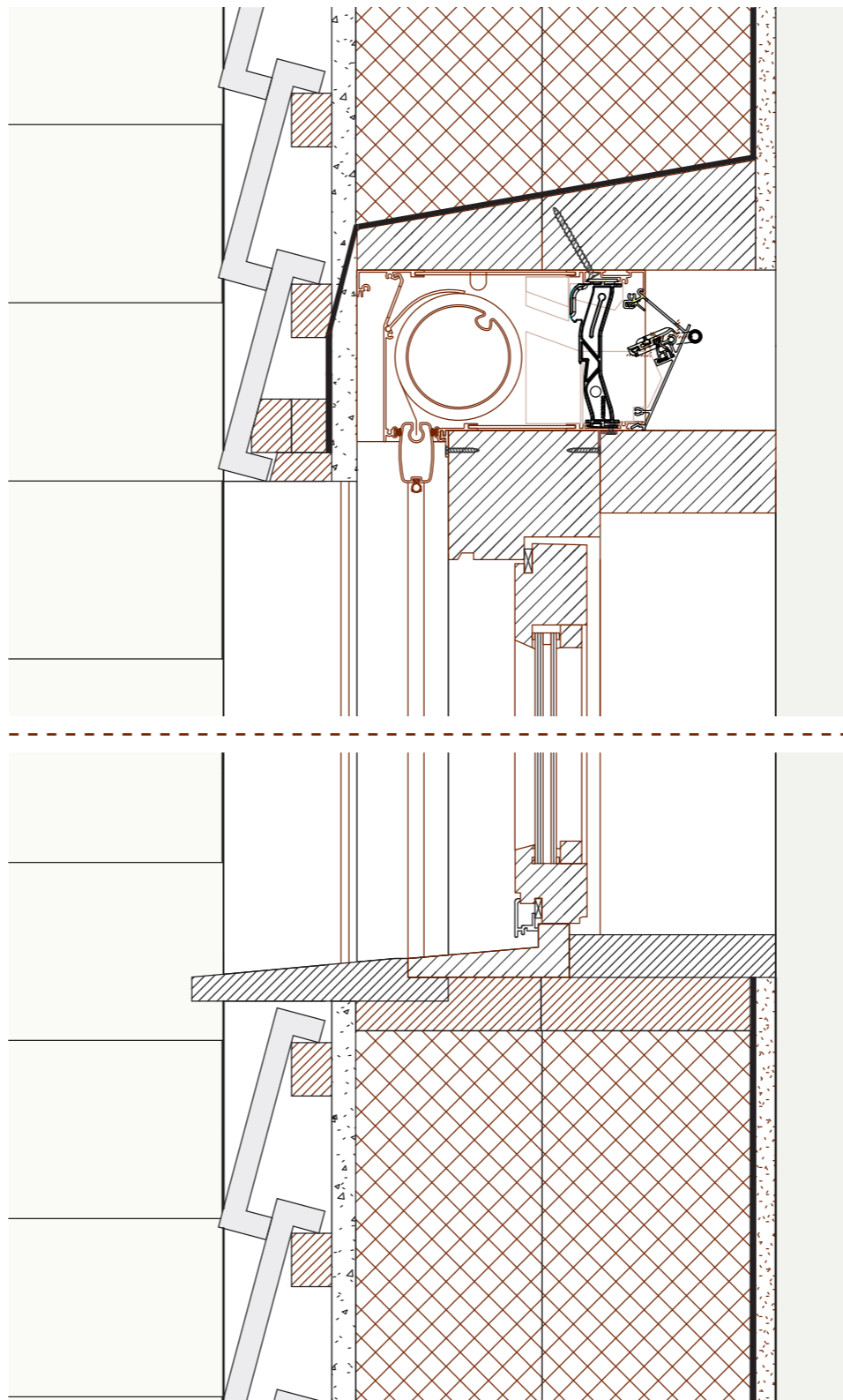
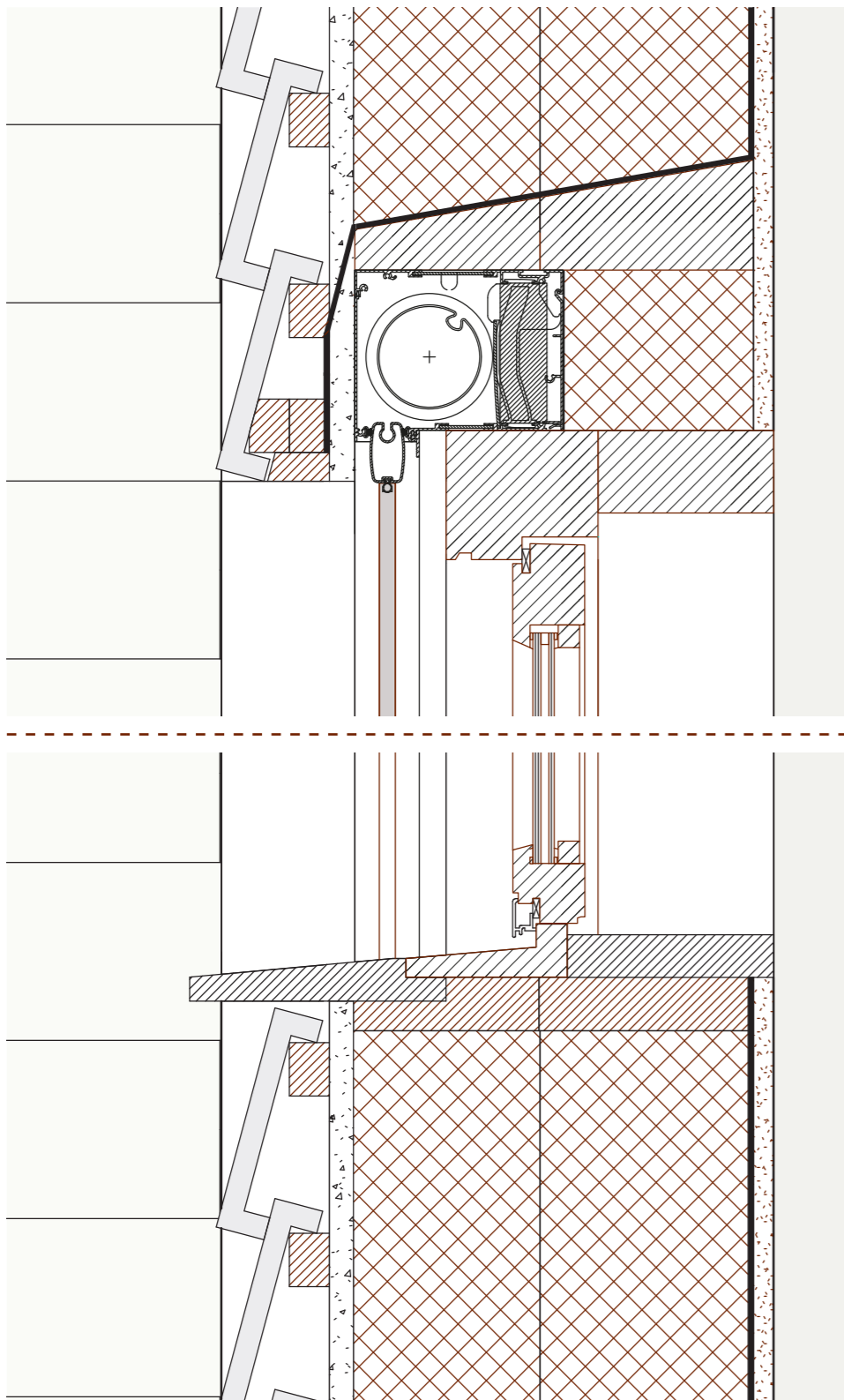


PROJECT
Green Balcony Nijmegen
design new 62C

DRAWING
facade fragment northside

SCALE
1:20





PROJECT
Green Balcony Nijmegen
design new 62C

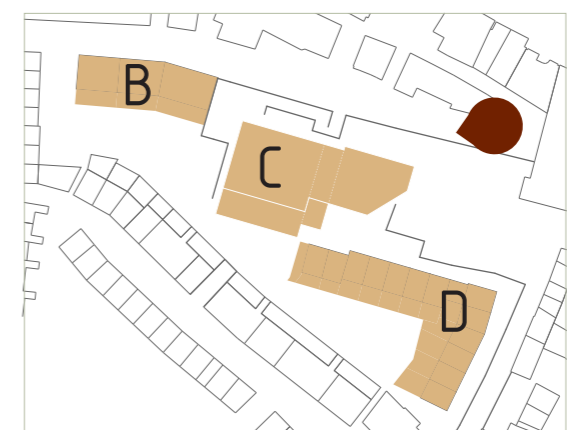
DRAWING
window fragment
northside

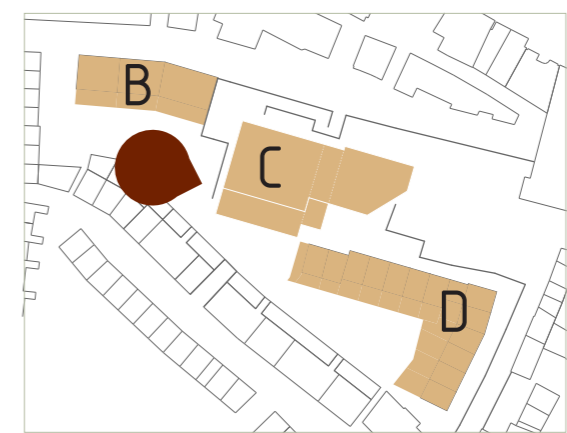
SCALE
1 : 5



Imkeliene Boersma __ 5114721

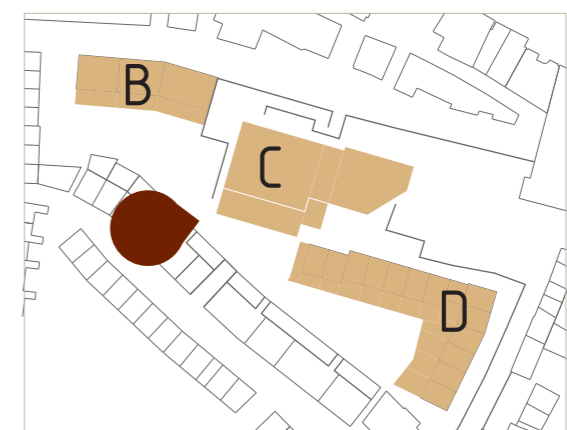
DESIGN RENDERING





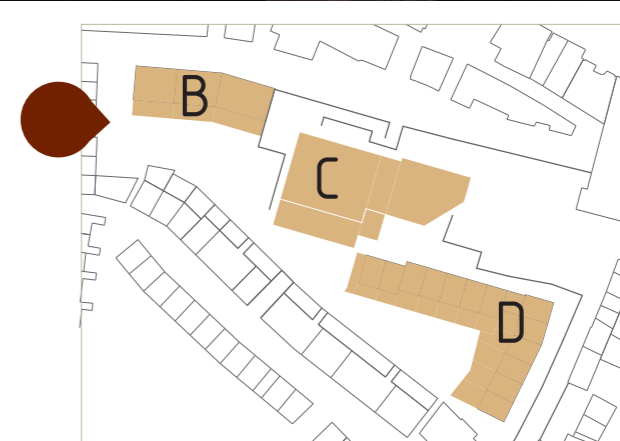
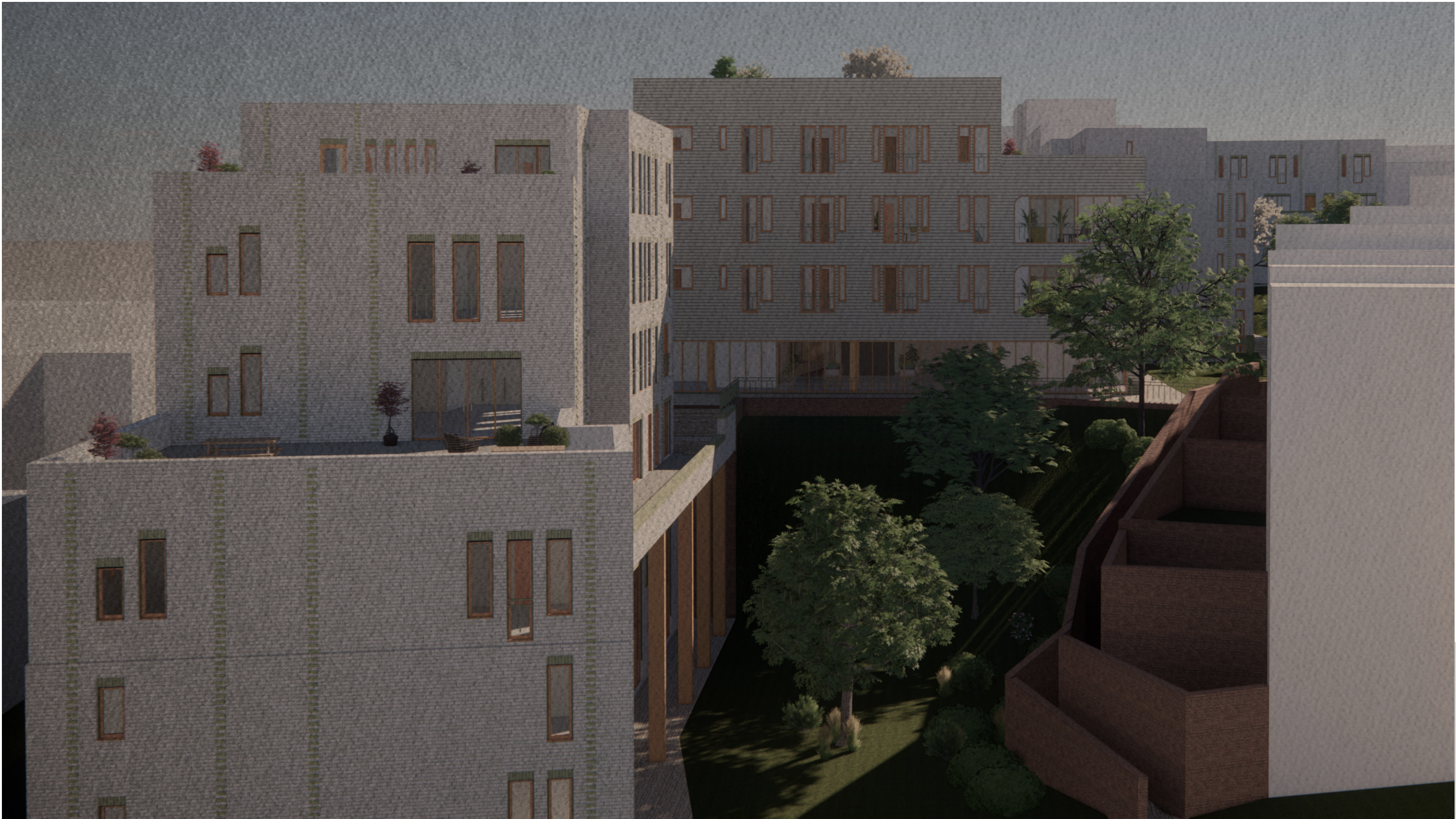


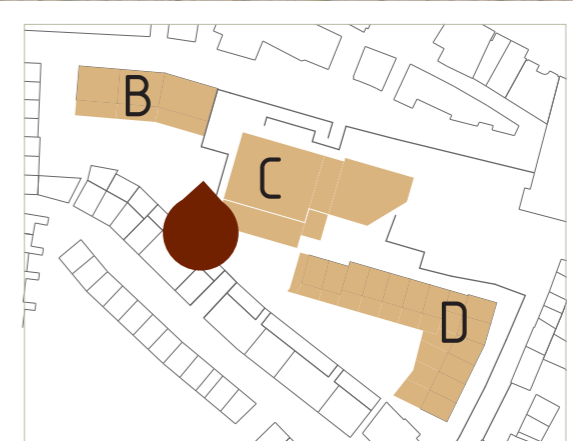
Imkeliene Boersma _ 5114721

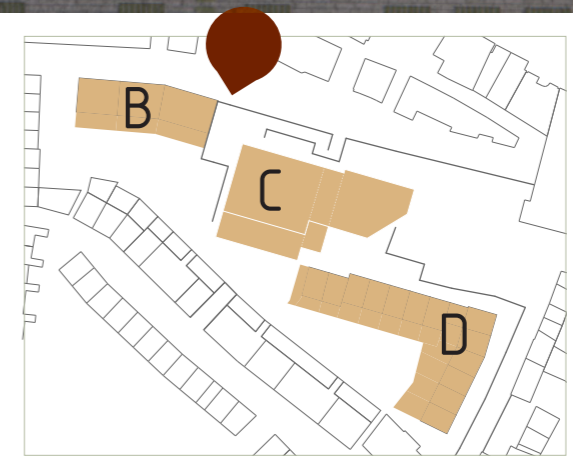


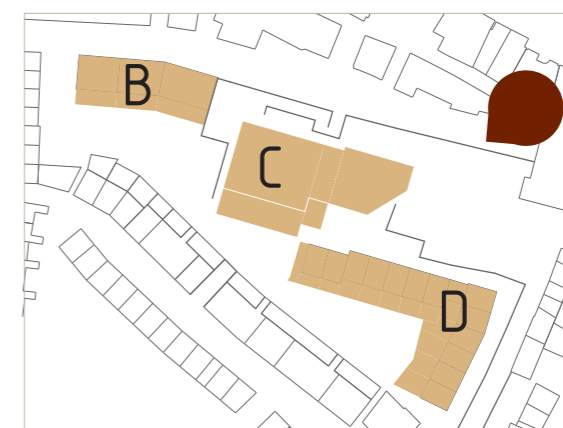
SCALE
1:2 000

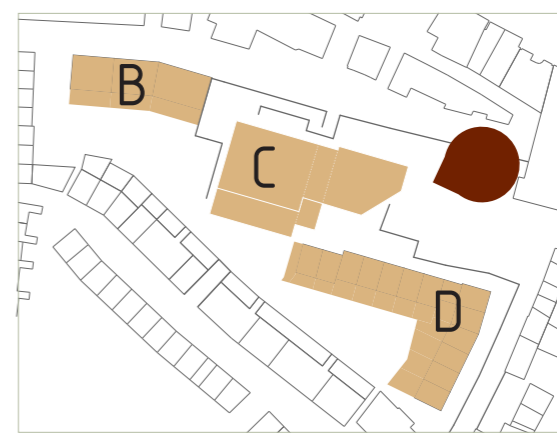
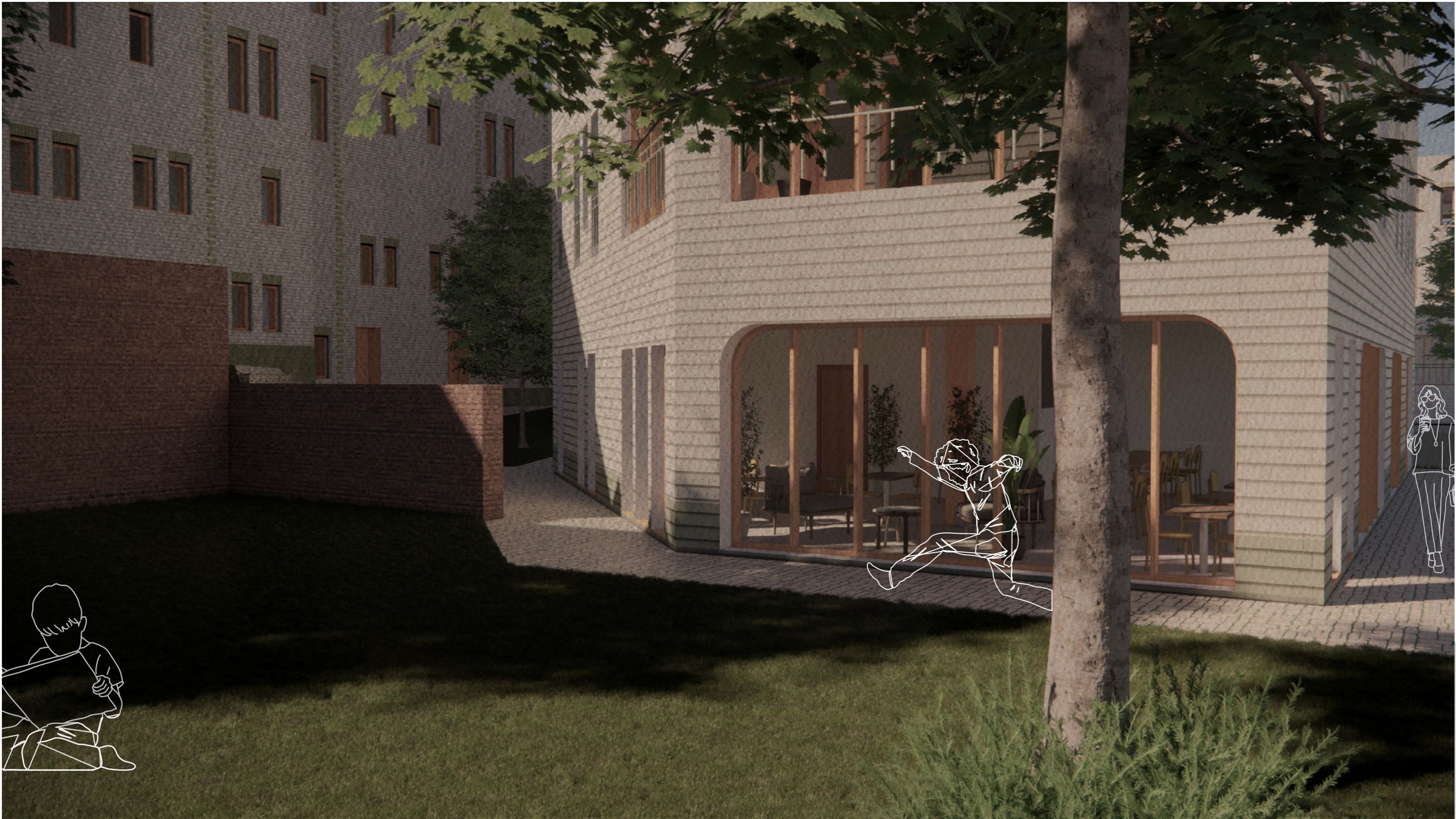


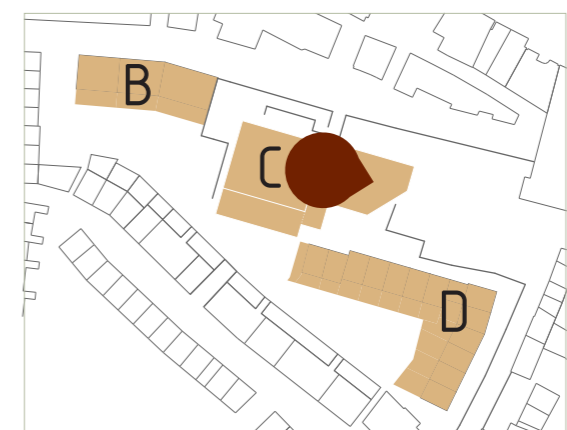


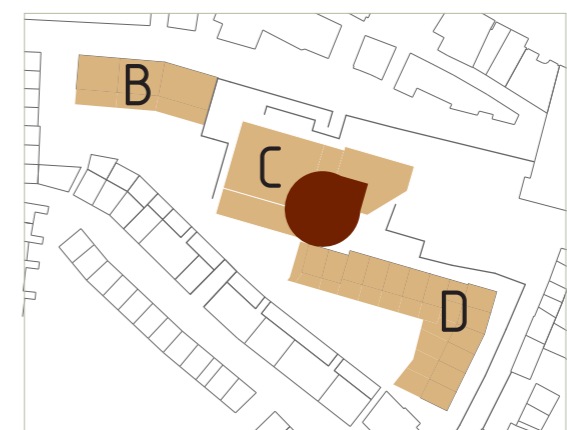


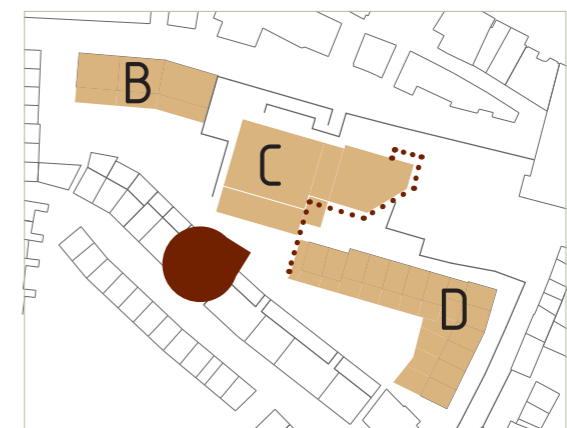


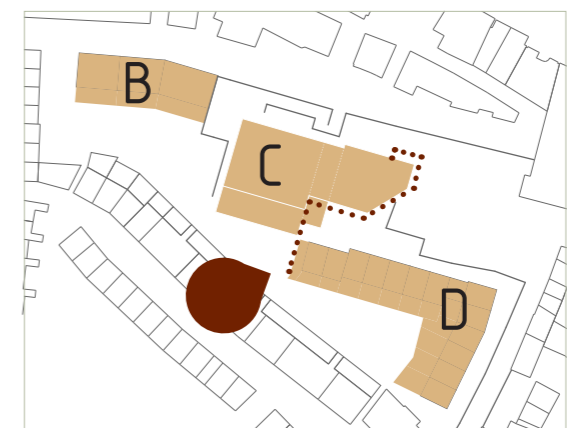


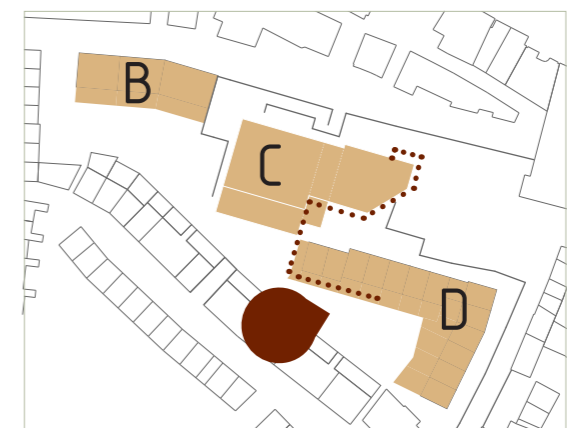


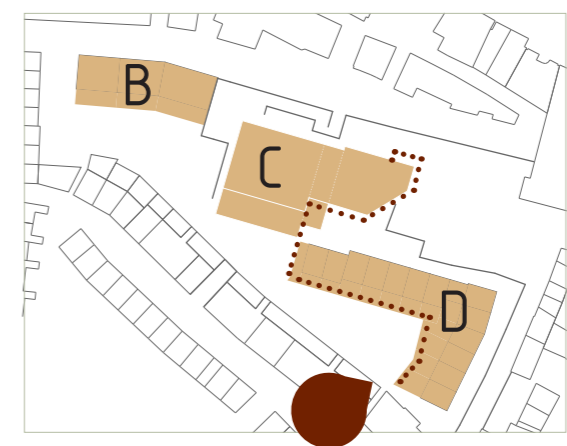


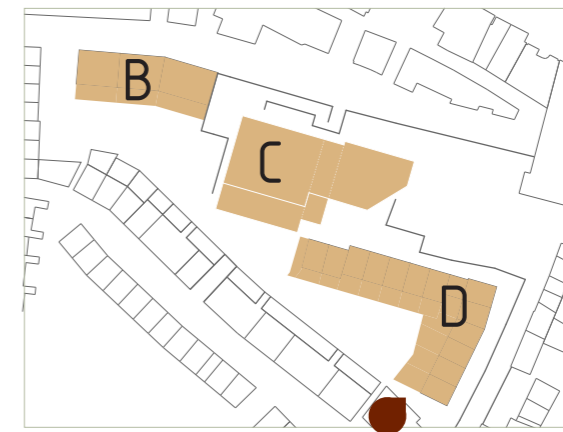






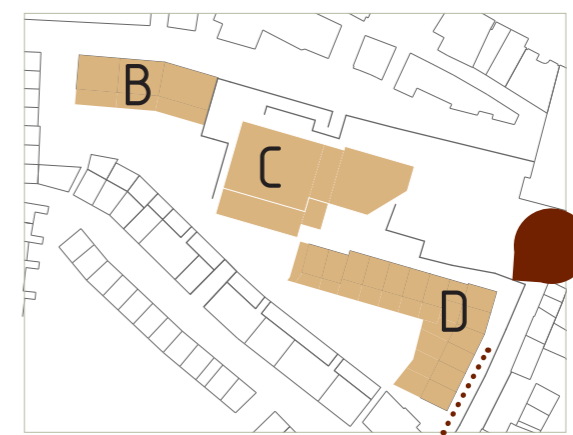






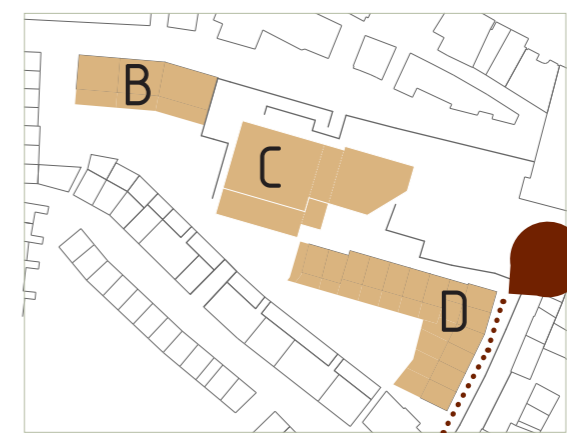


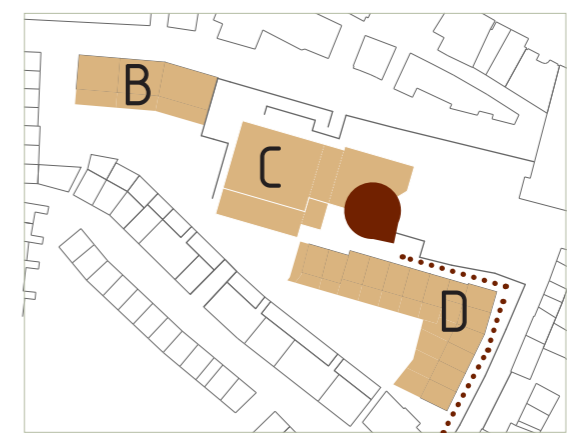
Imkeleene Boersma _ 5114 721

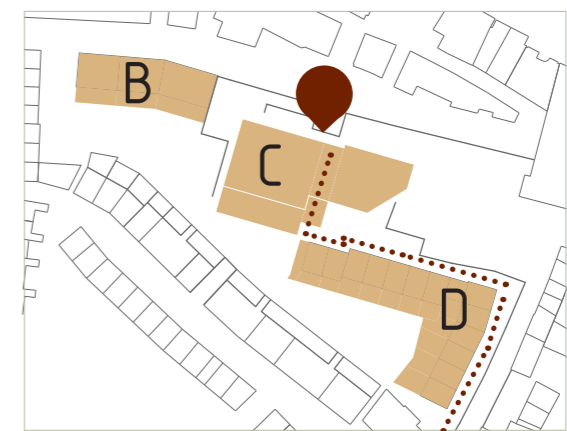
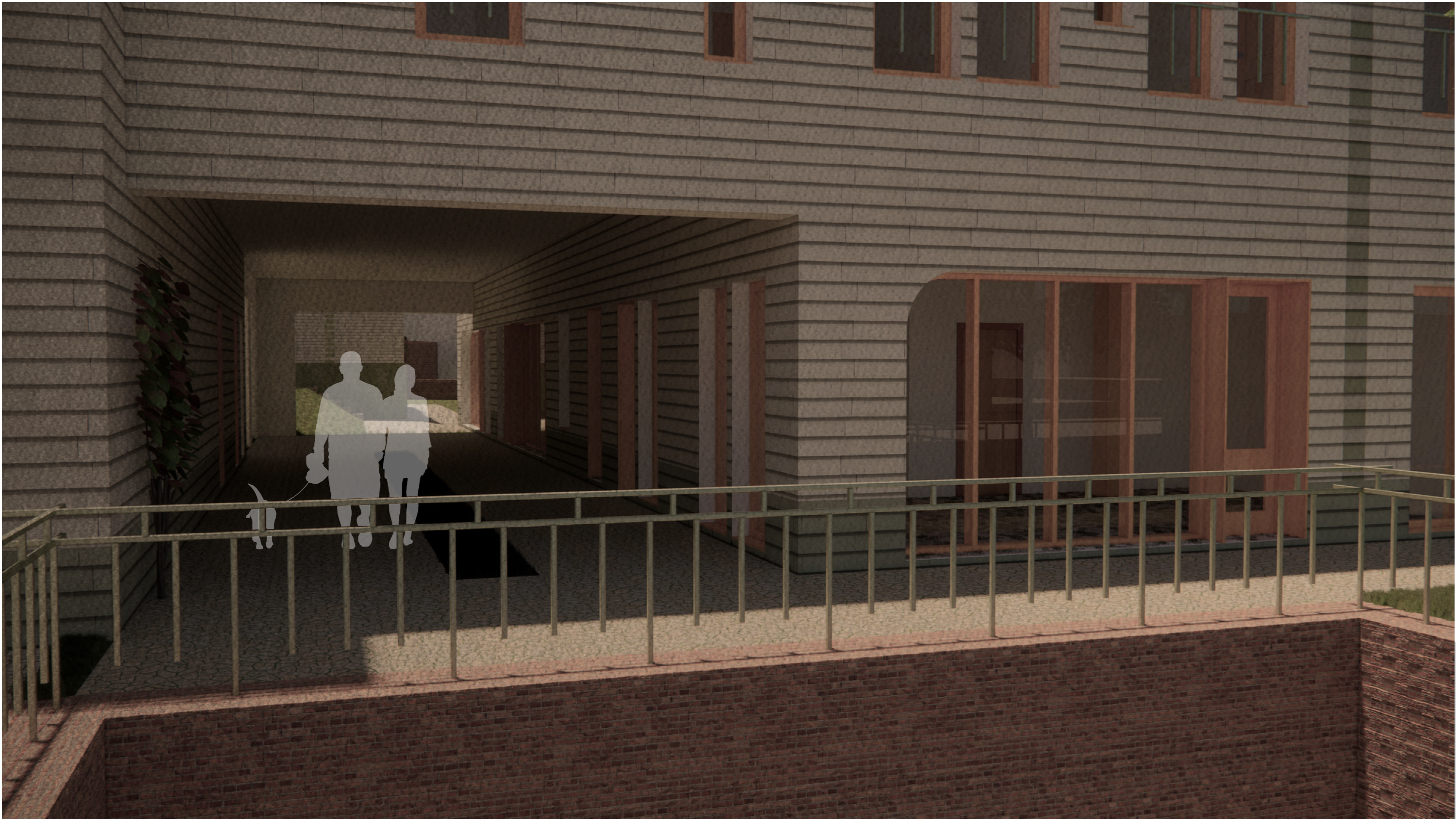


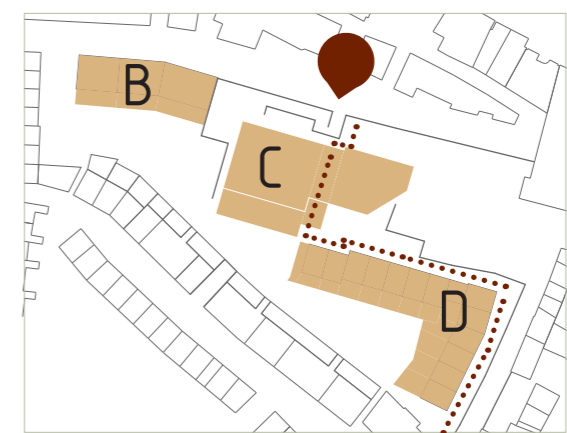
SCALE
1:2 000

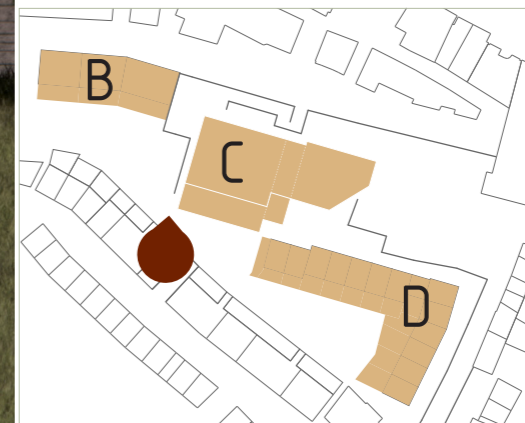












SCALE
1:2 000



